

SECTION
NTS

IPS = IRON PIPE SIZE
FIP = FEMALE IRON PIPE THREAD
MIP = MALE IRON PIPE THREAD

NOTES:

1. CORPORATION STOP SERVICE CONNECTIONS SHALL BE USED FOR ALL SERVICE LINES 2 INCH AND SMALLER.
2. ATTACH 12 GAUGE TRACER WIRE (BLUE) TO WATER MAIN TO MAKE ELECTRICALLY CONTINUOUS.
3. SERVICE PIPE SHALL BE BURIED IN CRUSHED SURFACING TOP COURSE.
4. DIRECT TAPPING OF WATER MAIN IS NOT ALLOWED.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

**CORPORATION STOP
SERVICE CONNECTION**

FILE NAME: SD701A.DWG DETAIL NUMBER: 701A

CURB STOP
CONNECTION

METER BOX

PLAN
NTS

METER
SETTER

CURB STOP
CONNECTION

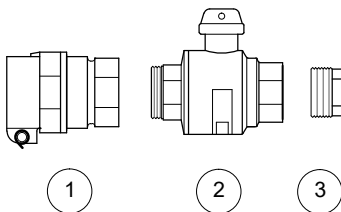
PE PIPE (IPS)
FROM WATER
MAIN

BUSHING

LENGTH VARIES

TO
PROPERTY

ELEVATION
NTS



PARTS LIST

1	2 INCH PACK JOINT	FORD PJC-703701 C16-77 MUELLER 682558	2 INCH FIP X 2 INCH IPS
2	2 INCH BALLCORP	FORD #FB1700-7-NL MUELLER B-20276N	2 INCH MIP X 2 INCH FIP 2 INCH MIP X 2 INCH FIP
3	BUSHING		2 INCH X SETTER SIZE

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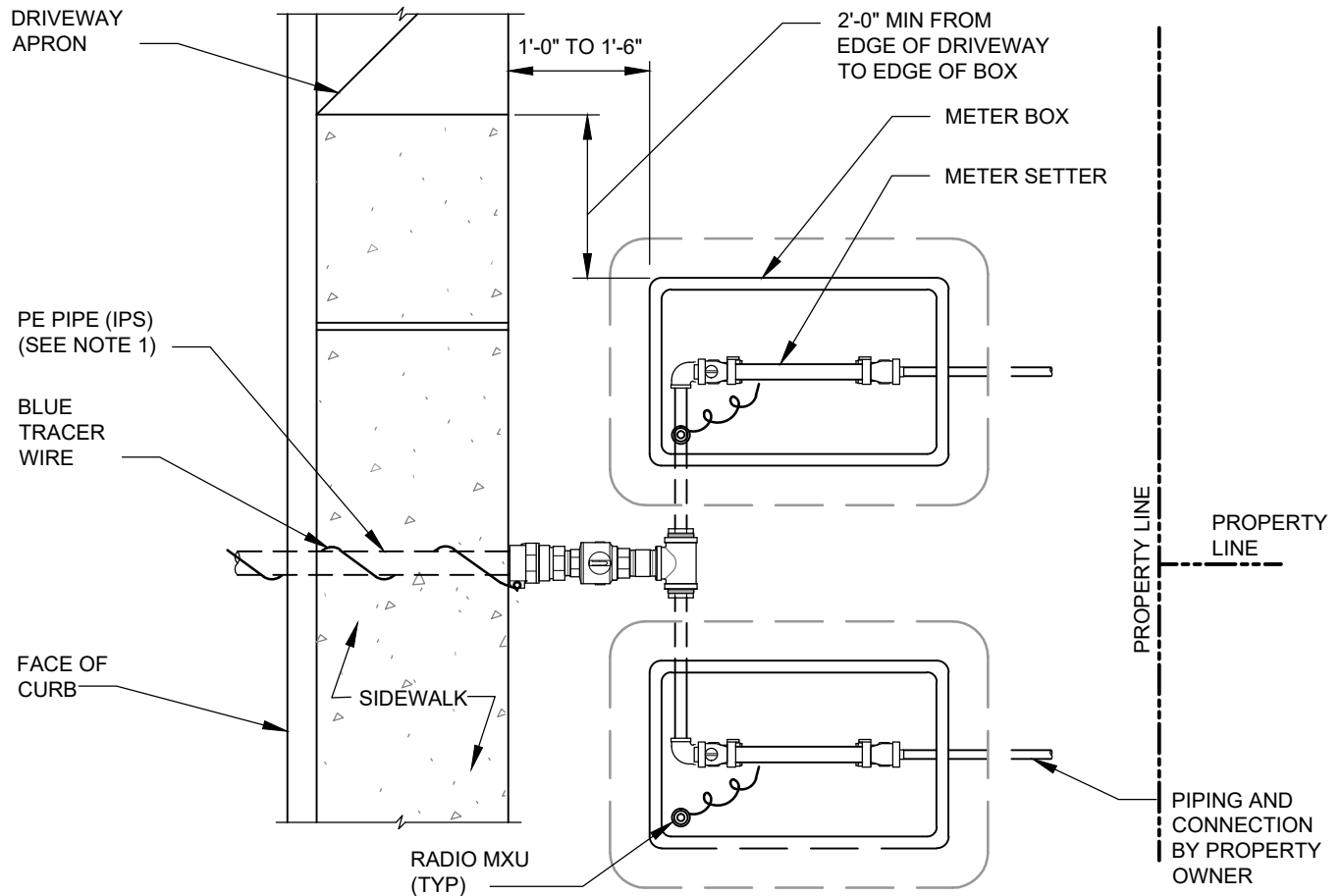
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STANDARD DETAILS

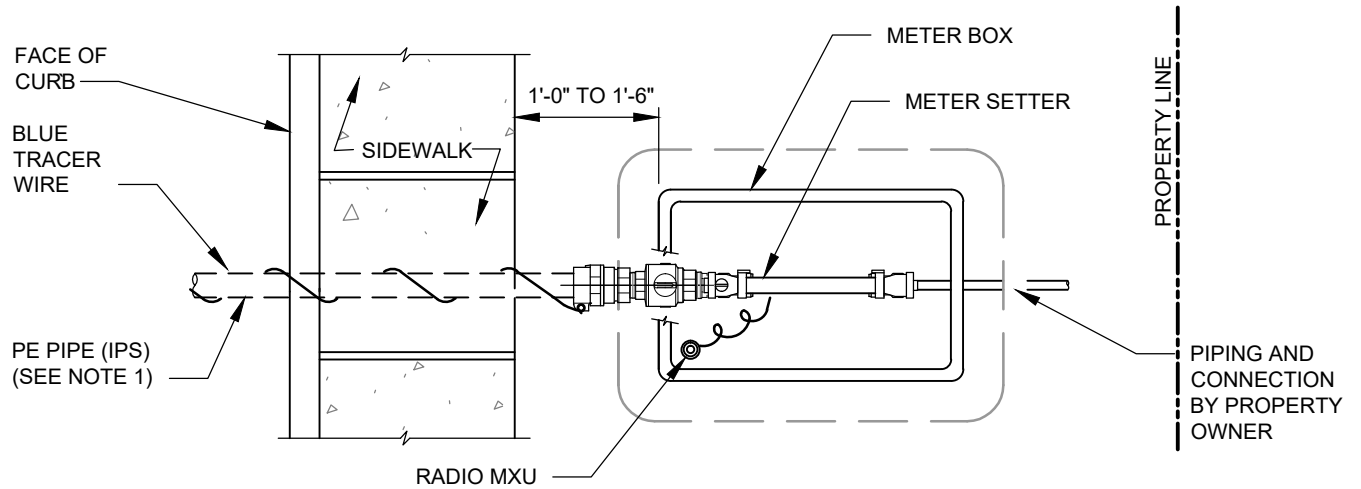
**CURB STOP
CONNECTION**

FILE NAME: SD701C.DWG | DETAIL NUMBER: 701C



DOUBLE SERVICE

NTS



SINGLE SERVICE

NTS

NOTES:

1. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
2. SEE STANDARD DETAILS 701A, 701C, 702, 703A, 703B AND 703C FOR ADDITIONAL DETAILS.
3. SEE STANDARD DETAIL 703C FOR TYPICAL PLACEMENT IN PLANTER STRIP.
4. MINIMUM 8 FOOT CLEARANCE FROM EDGE OF METER BOX TO TREES.

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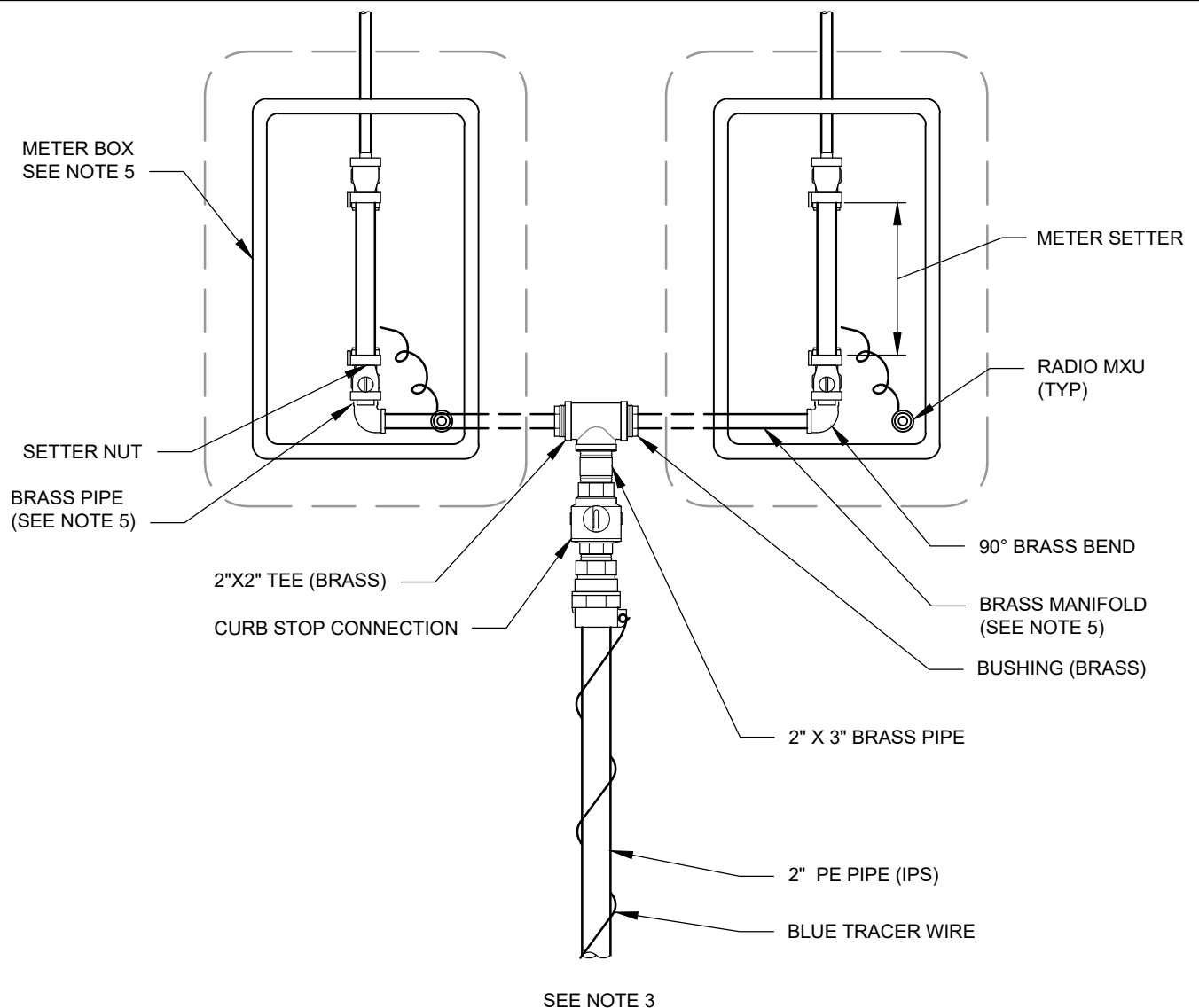


STANDARD DETAILS

STANDARD METER LOCATIONS
5/8" X 3/4" TO 2" METERS

FILE NAME: SD703.DWG

DETAIL NUMBER: 703



PLAN
NTS

NOTES:

1. ALL METERS SHALL BE INSTALLED IN LANDSCAPE AREAS.
2. DOUBLE SERVICE MANIFOLD SHALL BE USED FOR THE FOLLOWING USES:
 - A. ALL 5/8 INCH X 3/4 INCH AND 1 INCH METERS
 - B. 1- 1/2 INCH SINGLE FAMILY RESIDENTIAL DUAL PURPOSE (DOMESTIC AND FIRE) METERS.
3. USE CORPORATION STOP SERVICE CONNECTION AND CURB STOP CONNECTION. SEE STANDARD DETAILS 701A AND 701C.
4. CENTER METER BOX OVER METER SETTER ASSEMBLY AS SHOWN.

METER SETTER	BRASS MANIFOLD		BRASS BEND	BRASS PIPE		BOX SIZE
	DIA	LENGTH		DIA	LENGTH	
5/8" X 3/4"	3/4"	12"	3/4"	3/4"	3"	13" X 24"
1"	1"	12"	1"	1"	3"	13" X 24"
1-1/2"	1-1/2"	12"	1-1/2"	1-1/2"	3"	17" X 30"

Gary M. Schimek

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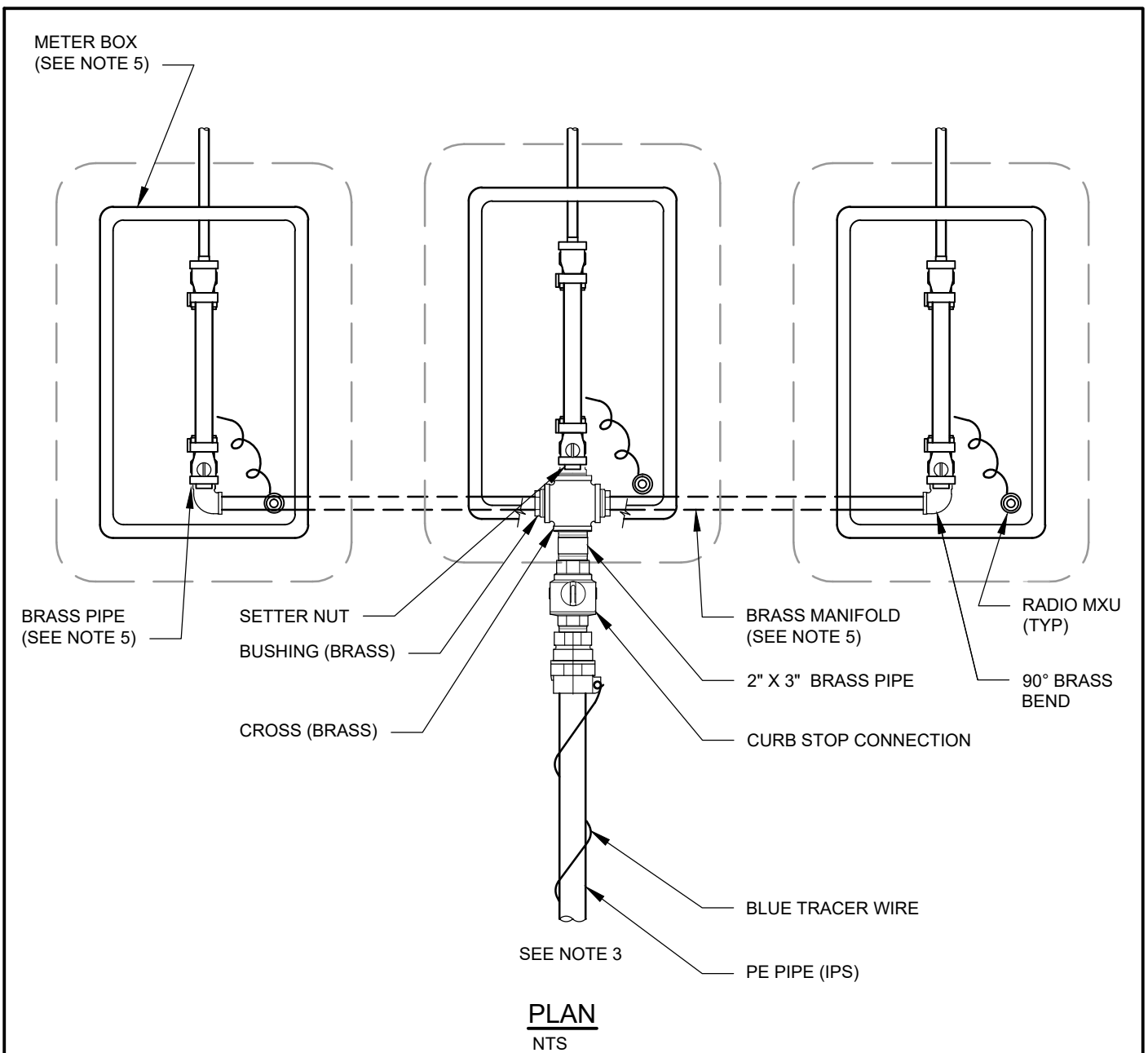
REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

**DOUBLE SERVICE
MANIFOLD**

FILE NAME: SD703A.DWG DETAIL NUMBER: 703A



NOTES:

1. ALL METERS SHALL BE INSTALLED IN LANDSCAPE AREAS.
2. TRIPLE SERVICE MANIFOLD SHALL BE USED FOR THE FOLLOWING USES:
 - A. ALL 5/8 INCH X 3/4 INCH AND 1 INCH METERS
 - B. 1- 1/2 INCH SINGLE FAMILY RESIDENTIAL DUAL PURPOSE (DOMESTIC AND FIRE) METERS.
3. USE CORPORATION STOP SERVICE CONNECTION AND CURB STOP CONNECTION. SEE STANDARD DETAILS 701A AND 701C.
4. CENTER METER BOX OVER METER SETTER ASSEMBLY AS SHOWN.

METER SETTER	BRASS MANIFOLD		BRASS BEND	BRASS PIPE		BOX SIZE
	DIA	LENGTH		DIA	LENGTH	
5/8" X 3/4"	3/4"	24"	3/4"	3/4"	3"	13" X 24"
1"	1"	24"	1"	1"	3"	13" X 24"
1-1/2"	1-1/2"	24"	1-1/2"	1-1/2"	3"	17" X 30"

Gary M. Schimek

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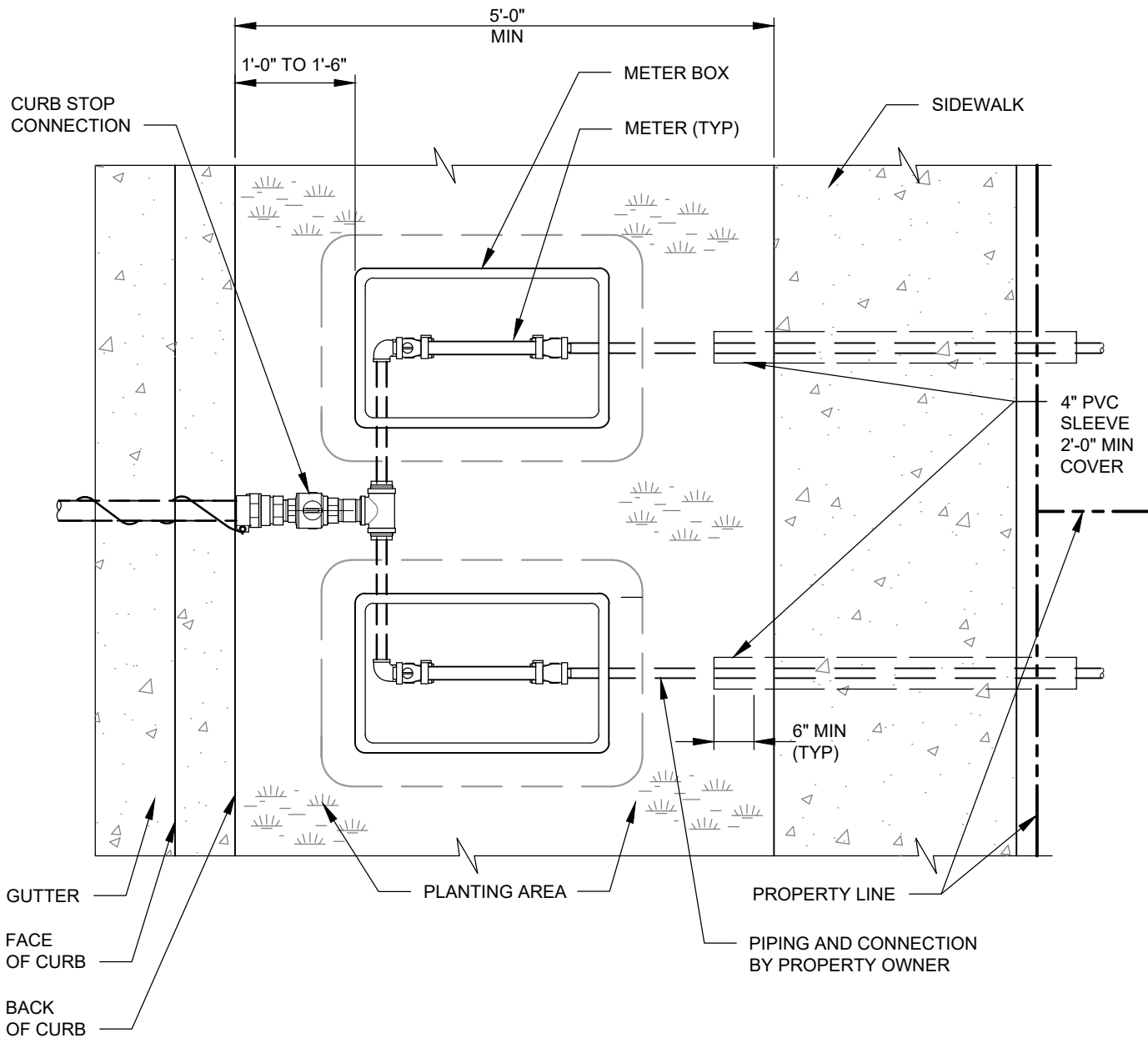
REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

TRIPLE SERVICE
MANIFOLD

FILE NAME: SD703B.DWG DETAIL NUMBER: 703B



METER BOXES

NTS

NOTES:

1. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
2. SEE STANDARD DETAILS 701A, 701C, 702, 703A AND 703B FOR ADDITIONAL DETAILS.
3. MINIMUM 8 FOOT CLEARANCE FROM EDGE OF METER BOX TO TREES.

Gary M. Schimek

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REVISION DATE: MARCH 01, 2018

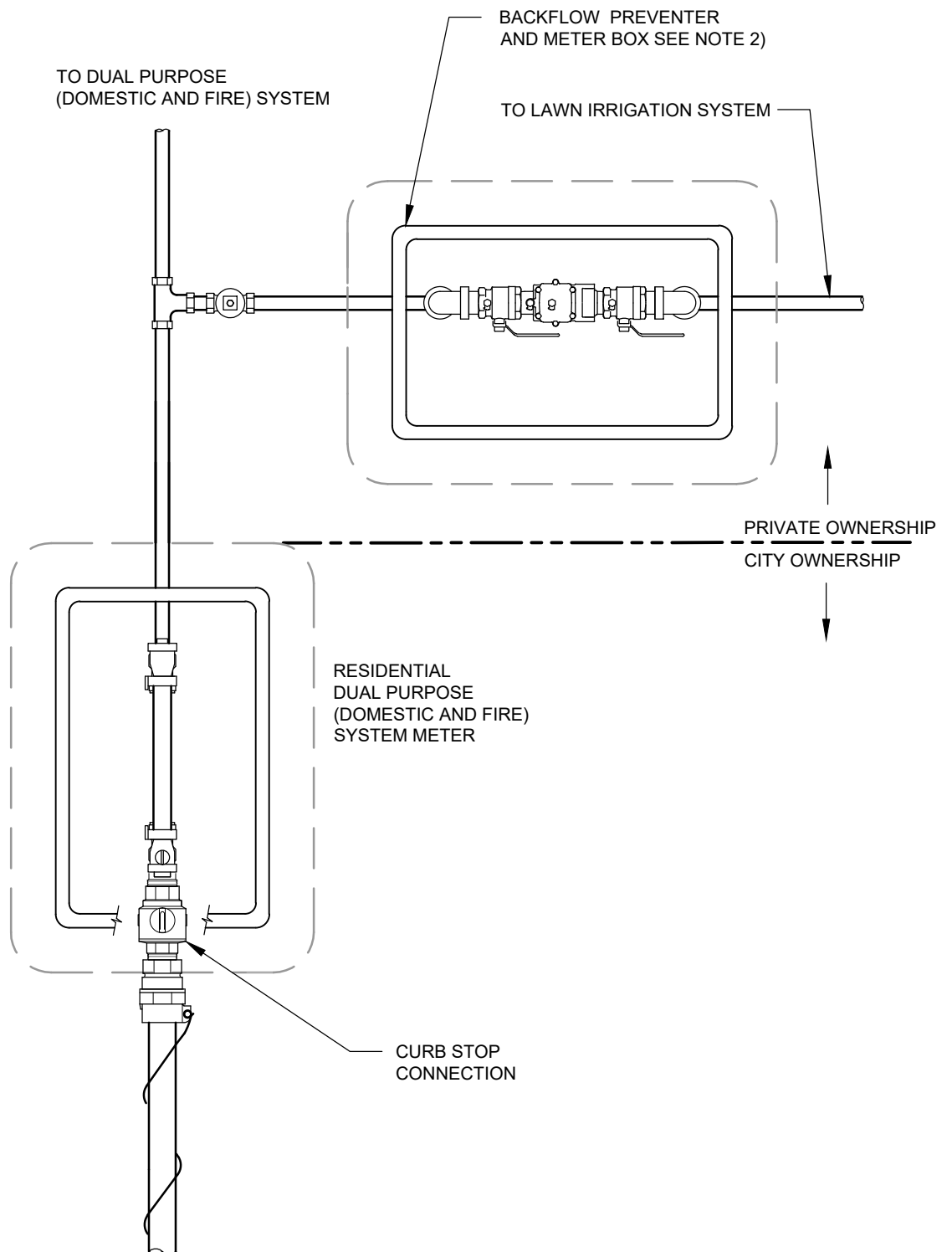


City of Redmond
WASHINGTON

STANDARD DETAILS

METER BOX LOCATION
WITHIN PLANTING AREA

FILE NAME: SD703C.DWG DETAIL NUMBER: 703C



SINGLE METER
NTS

NOTES:

1. SEE STANDARD DETAILS 701A, 701C, 702, AND 703 FOR ADDITIONAL DETAILS.
2. SEE STANDARD DETAIL 711 FOR ADDITIONAL INFORMATION ON BACKFLOW PREVENTERS (BFP).

Gary M. Schimek

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REVISION DATE: MARCH 01, 2018

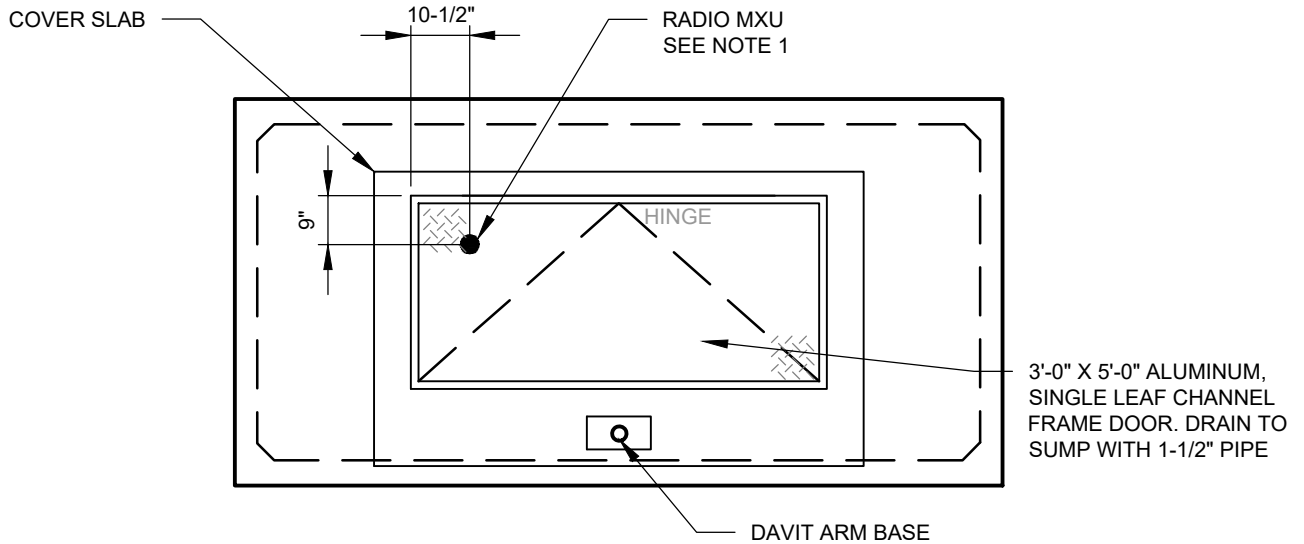


STANDARD DETAILS

**RESIDENTIAL FIRE
SPRINKLER DETAILS**

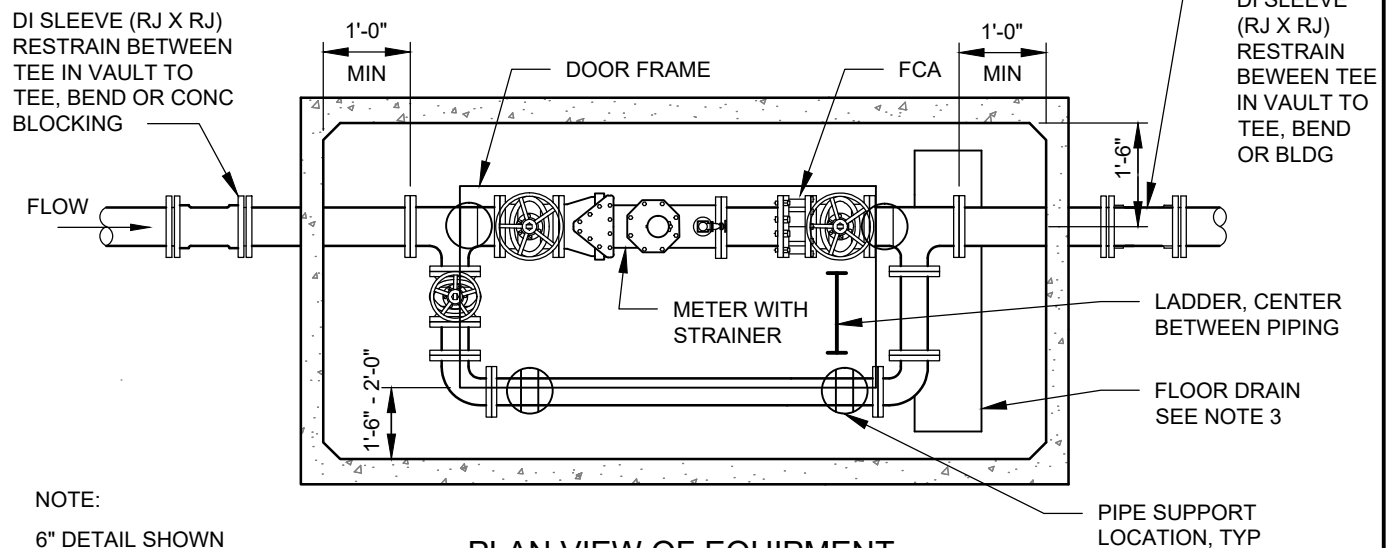
FILE NAME: SD704.DWG

DETAIL NUMBER: 704



PLAN VIEW WITH COVER SLAB

NTS



NOTE:
6" DETAIL SHOWN

PLAN VIEW OF EQUIPMENT

NTS

VAULT, FITTINGS AND PIPING SIZING REQUIREMENTS						UTILITY VAULT NO. *
METER SIZE	BYPASS VALVES AND PIPING	BYPASS TEE (FL X FL)	MIN INSIDE VAULT DIM			
3"	3"	3" X 3"	LEN	WIDTH	HT	810 - LA
4"	4"	4" X 4"	10 FT	6 FT	6 FT	810 - LA
6"	4"	6" X 4"	10 FT	6 FT	6 FT	810 - LA

* OR APPROVED EQUAL

NOTES:

1. VAULT ACCESS HATCH SHALL BE DRILLED FOR INSTALLATION OF RADIO MXU.
2. METER SHALL BE OBTAINED BY THE CONTRACTOR FROM THE SUPPLIER AND DELIVERED TO CITY MAINTENANCE OPERATIONS CENTER FOR STORAGE UNTIL INSTALLATION. WHEN METER APPLICATION IS APPROVED FOR INSTALLATION, INCLUDING PAYMENT OF CONNECTION FEES, THE CONTRACTOR SHALL RETRIEVE AND INSTALL METER.
3. A GRAVITY VAULT DRAIN (DI) SHALL BE CONNECTED TO STORM SYSTEM AS SHOWN ON THE DRAWINGS.
4. PAINT ALL EXPOSED PIPING AND FITTINGS INSIDE VAULT, EXCEPT METER BODY.
5. CENTER PIPING UNDER HATCH OPENING.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

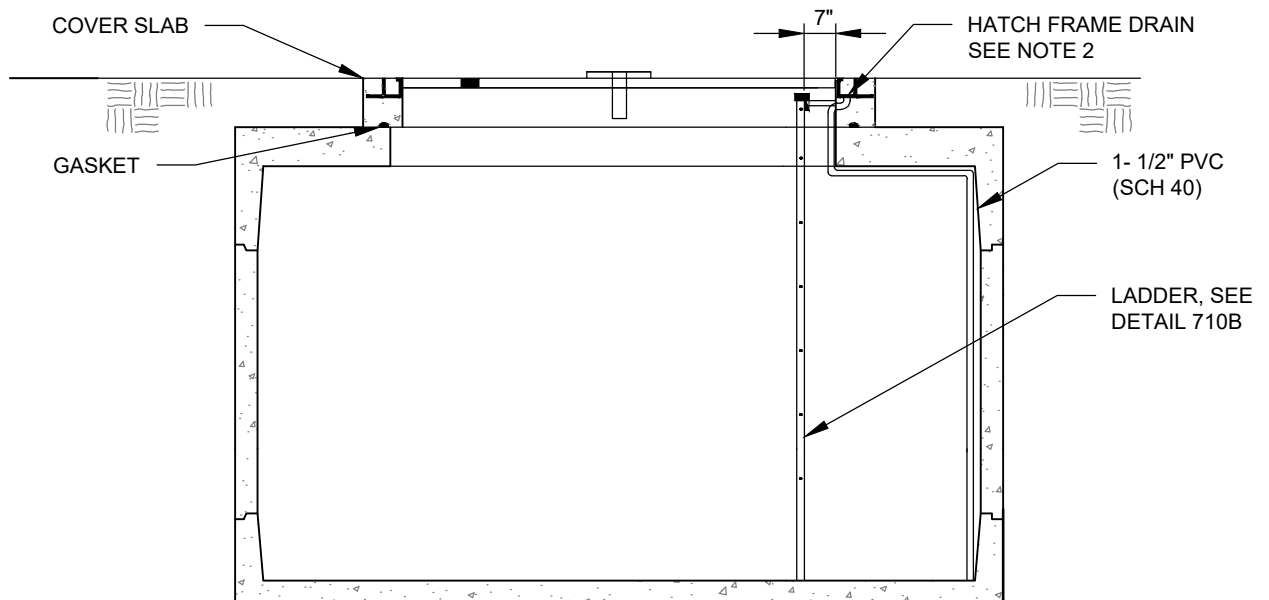


STANDARD DETAILS

WATER METER PLAN VIEW
3", 4", 6" METER DETAILS

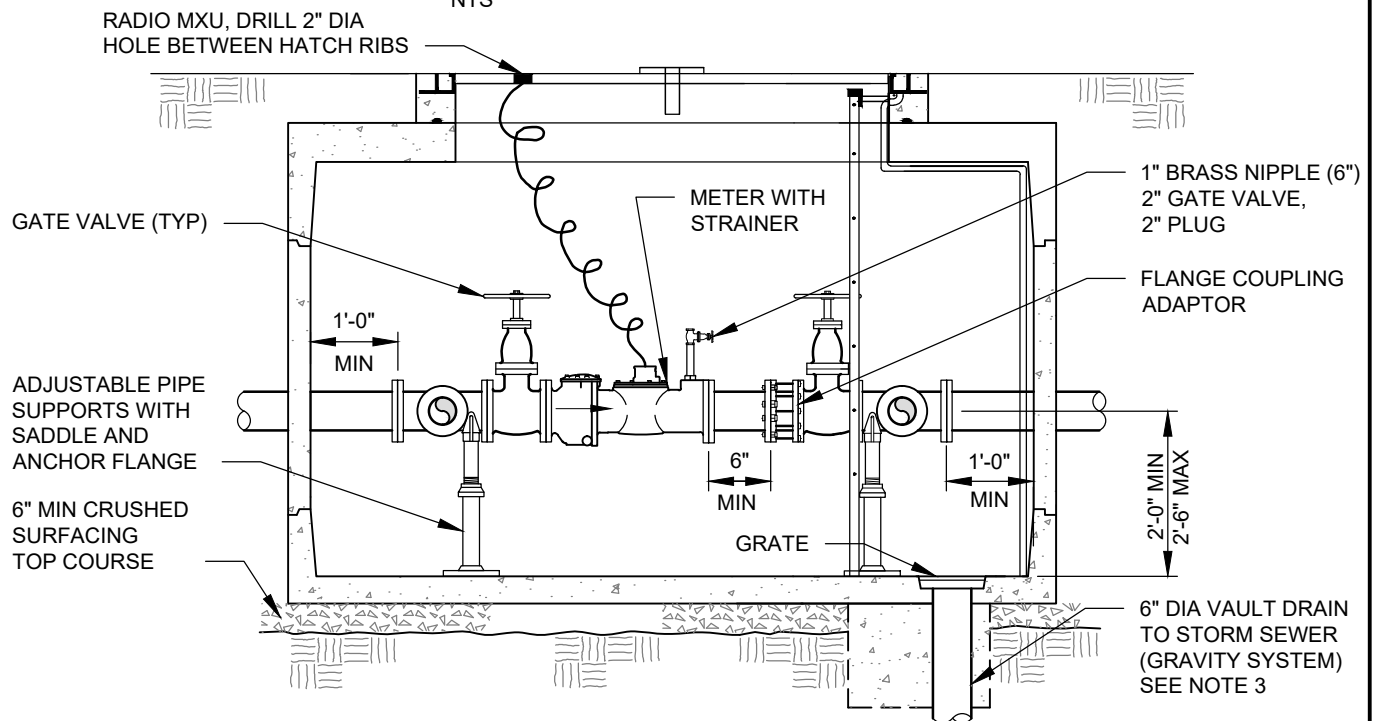
FILE NAME: SD705.DWG

DETAIL NUMBER: 705



SECTION WITH COVER SLAB

NTS



SECTION OF EQUIPMENT

NTS

(6" DETAIL SHOWN)

NOTES:

1. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET COVER SLAB APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.
2. HATCH FRAME DRAIN CAST IN CONCRETE SHALL BE 1 - 1/2 INCH BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1 - 1/2 INCH SCH 40 PVC IN VAULT. USE 45° BENDS WHERE POSSIBLE AND PROVIDE UNIONS TO ALLOW DISASSEMBLY OF PIPING. ATTACH TO VAULT WITH STAINLESS STEEL HARDWARE.
3. VAULT SHALL DRAIN BY GRAVITY TO STORM SYSTEM WHENEVER POSSIBLE. IF GRAVITY CAN NOT BE ACHIEVED, CITY MAY ALLOW THE USE OF A SUMP PUMP (STANDARD SPEC 7-20.3). THE VAULT SHALL BE DESIGNED WITH AN INTEGRATED SUMP. SHOP DRAWINGS FOR THE VAULT WITH SUMP SHALL BE APPROVED PRIOR TO INSTALLATION.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

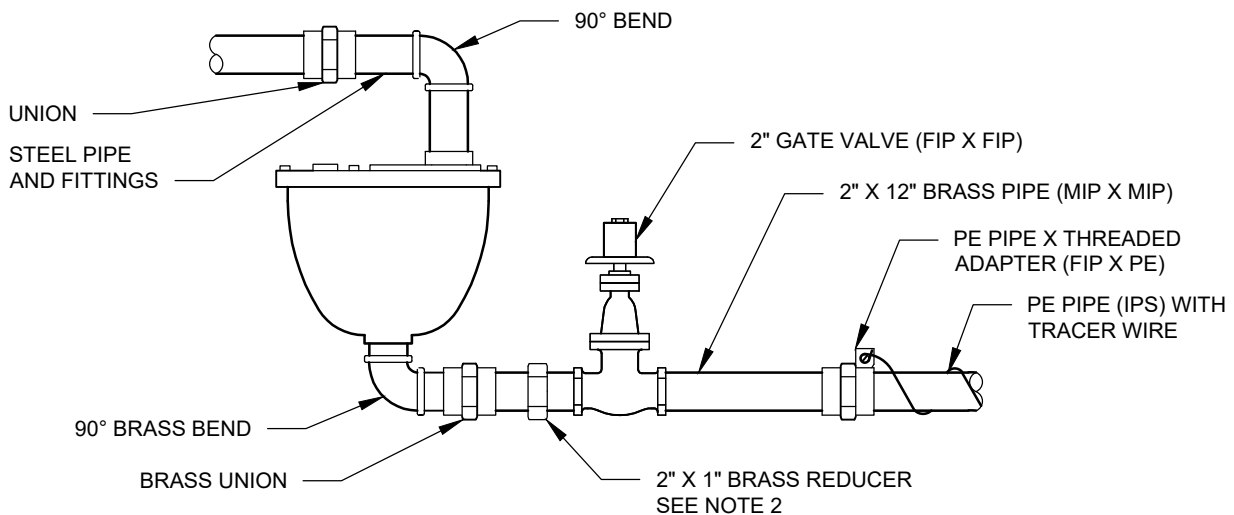
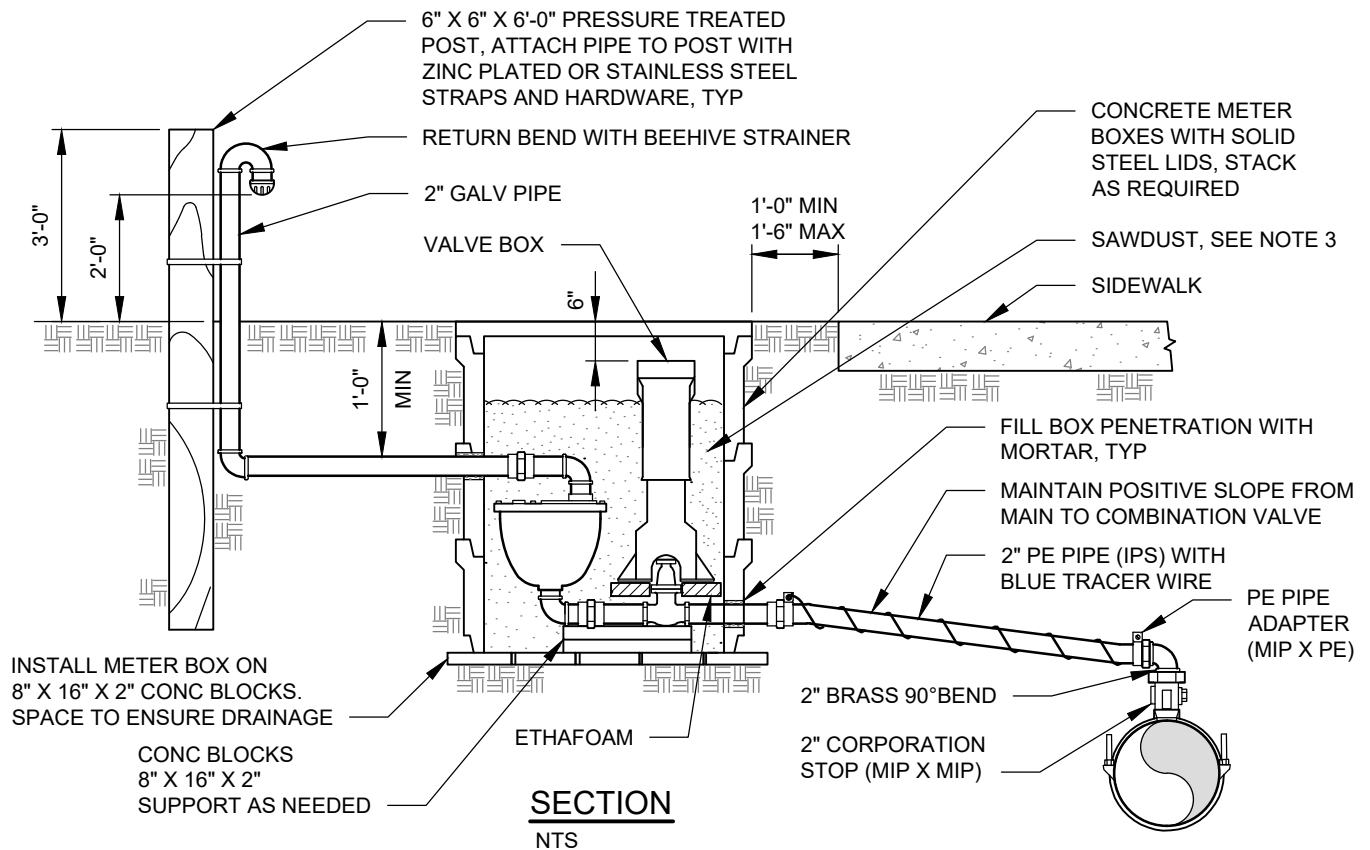


City of Redmond
WASHINGTON

STANDARD DETAILS

WATER METER SECTIONS
3", 4", 6" METER DETAILS

FILE NAME: SD705A.DWG DETAIL NUMBER: 705A



NOTES:

1. COMBINATION AIR RELEASE AND VACUUM VALVE SHALL BE A 2 INCH SIZE MINIMUM - UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
2. FOR 1 INCH COMBINATION VALVE, INSTALL 2 INCH X 1 INCH REDUCER BETWEEN GATE VALVE AND UNION.
3. FILL METER BOX WITH SAWDUST AFTER TESTING AND INSPECTION.
4. INSTALL STANDARD MARKER POST IDENTIFYING VALVE LOCATION (NOT SHOWN).
5. SET METER BOX FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET METER BOX APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF IN LANDSCAPED AREA.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

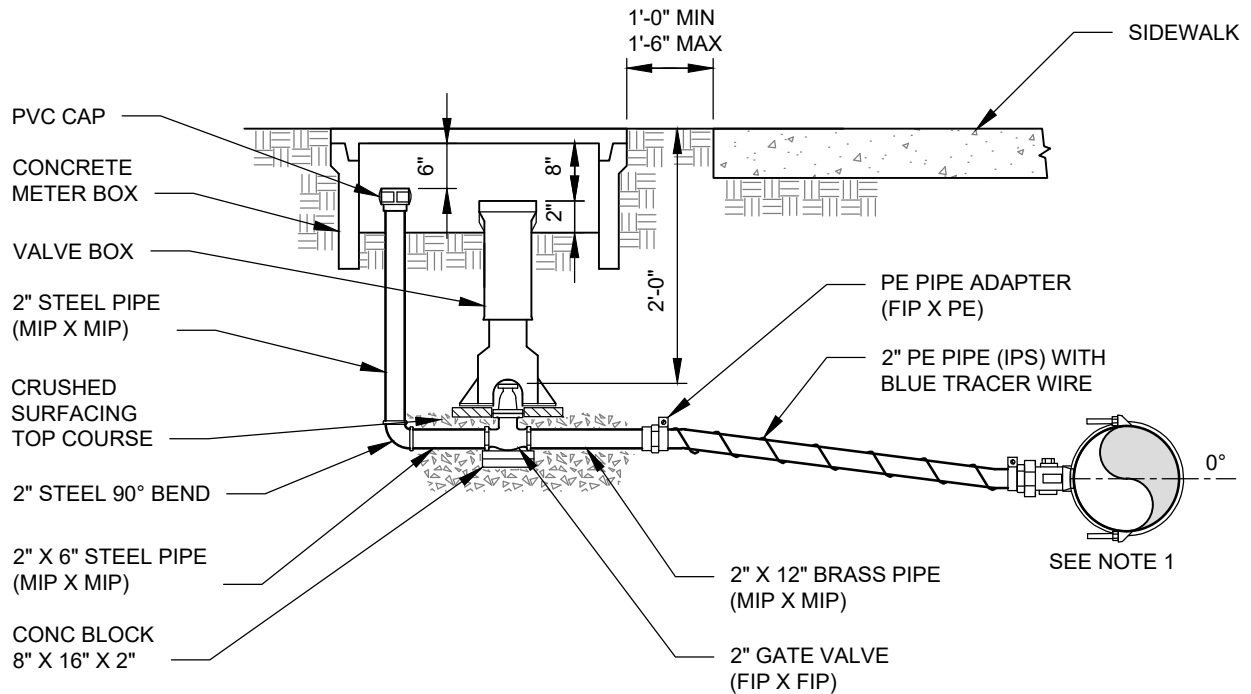


STANDARD DETAILS

COMBINATION AIR RELEASE AND
VACUUM VALVE ASSEMBLY

FILE NAME: SD706.DWG

DETAIL NUMBER: 706



SECTION

NTS

NOTES:

1. SEE STANDARD DETAIL 701A FOR CONNECTION TO MAIN.
2. SET METER BOX FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET METER BOX APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF IN LANDSCAPING AREA.
3. INSTALL STANDARD MARKER POST IDENTIFYING BLOW-OFF LOCATION. (NOT SHOWN)
4. ANY ADDITIONAL FITTINGS FROM THE GATE VALVE TO THE MAIN SHALL BE BRASS.

Gary M. Schimek

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REVISION DATE: MARCH 01, 2018

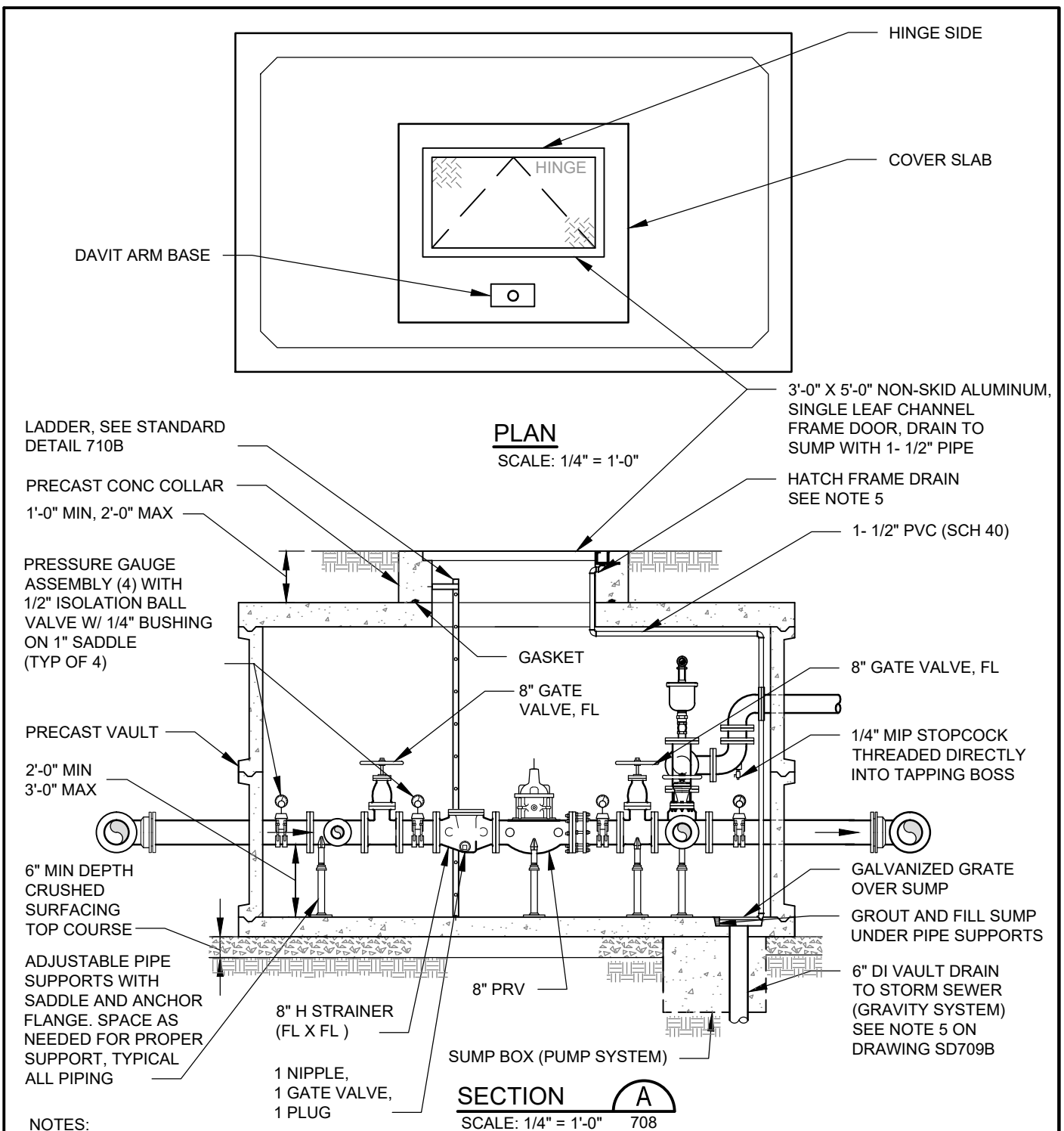


STANDARD DETAILS

BLOW-OFF ASSEMBLY

FILE NAME: SD707.DWG

DETAIL NUMBER: 707



NOTES:

1. 8 INCH PRV STATION SHOWN. 6 INCH PRV STATION IS IDENTICAL EXCEPT THAT THE UPSTREAM AND DOWNSTREAM PIPING, FITTINGS, AND VALVES ARE 6 INCHES.
2. PAINT ALL EXPOSED PIPING AND FITTINGS WITHIN VAULT AND ABOVE GRADE.
3. ALL VALVES WITHIN VAULT TO HAVE HAND WHEEL OPERATORS.
4. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA.
SET COVER SLAB APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.
5. HATCH FRAME DRAIN CAST IN CONCRETE SHALL BE 1- 1/2 INCH BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1-1/2 INCH SCH 40 PVC IN VAULT. USE 45° BENDS WHERE POSSIBLE AND PROVIDE UNIONS TO ALLOW DISASSEMBLY OF PIPING. ATTACH TO VAULT WITH STAINLESS STEEL HARDWARE.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

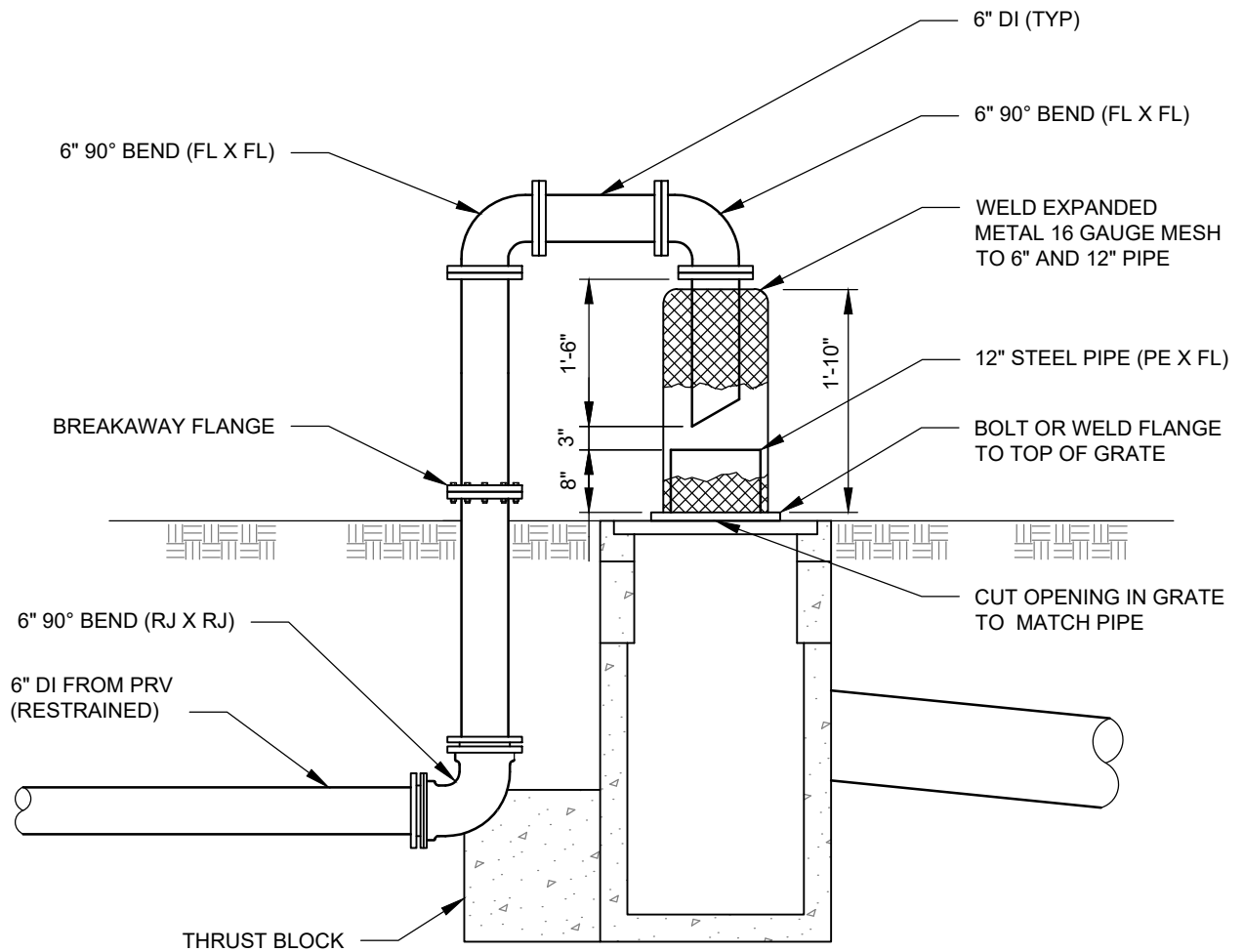
REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

6" AND 8" PRV STATION

FILE NAME: SD709A.DWG DETAIL NUMBER: 709A



CATCH BASIN DETAIL

NTS

NOTE:

PAINT ALL EXPOSED PIPING AND FITTINGS ABOVE GRADE.

Gary M. Schimek

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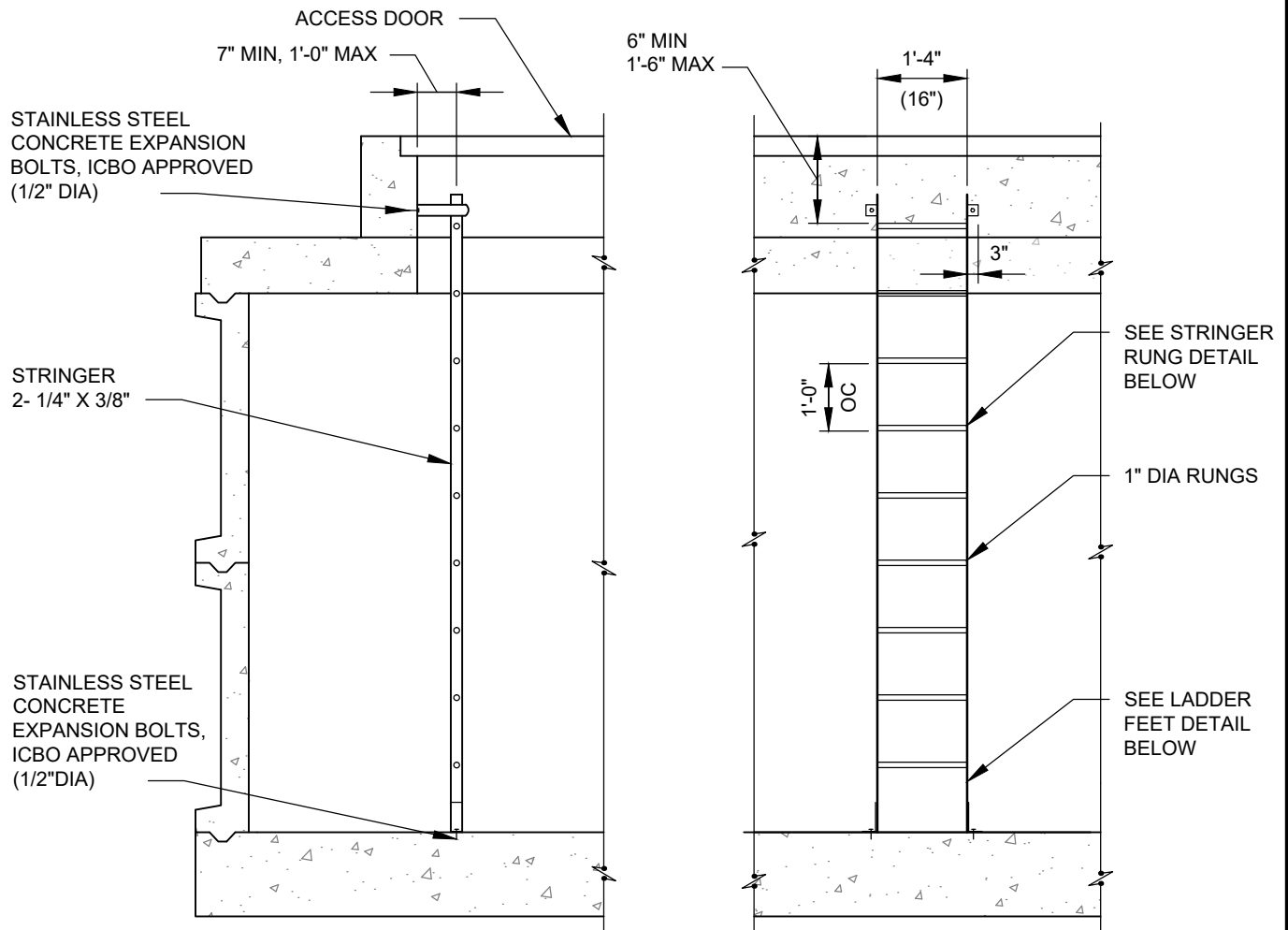
REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

6" AND 8" PRV STATION
MISC DETAILS

FILE NAME: SD710A.DWG DETAIL NUMBER: 710A

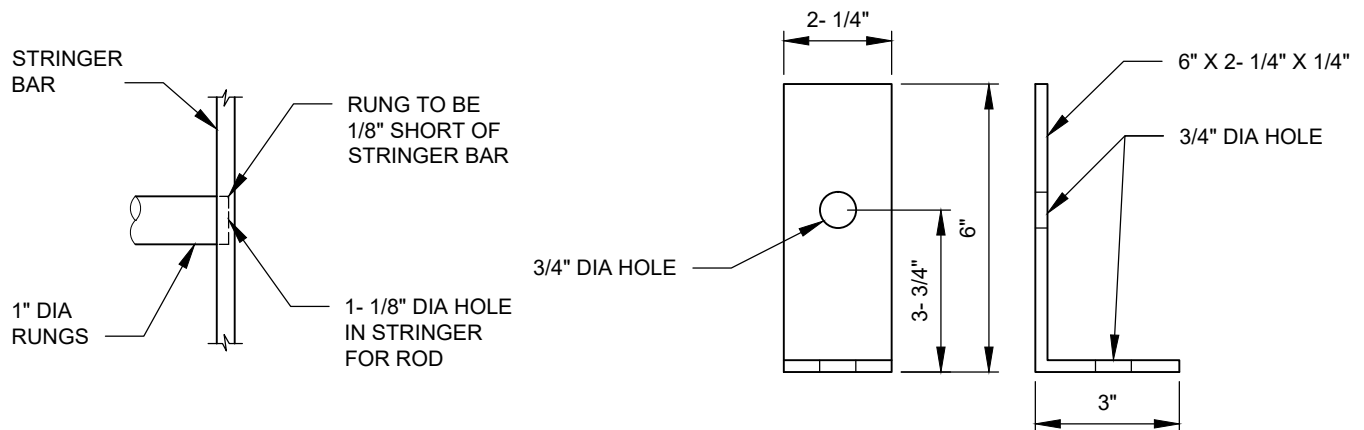


NOTES:

ALL RUNGS SHALL BE CORRUGATED, KNURLED, DIMPLED, COATED WITH SKID-RESISTANT MATERIAL, OR OTHERWISE TREATED TO MINIMIZE SLIPPING.

ALUMINUM LADDER SECTION

NTS



STRINGER / RUNG DETAIL

NTS

LADDER FEET DETAIL

NTS

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

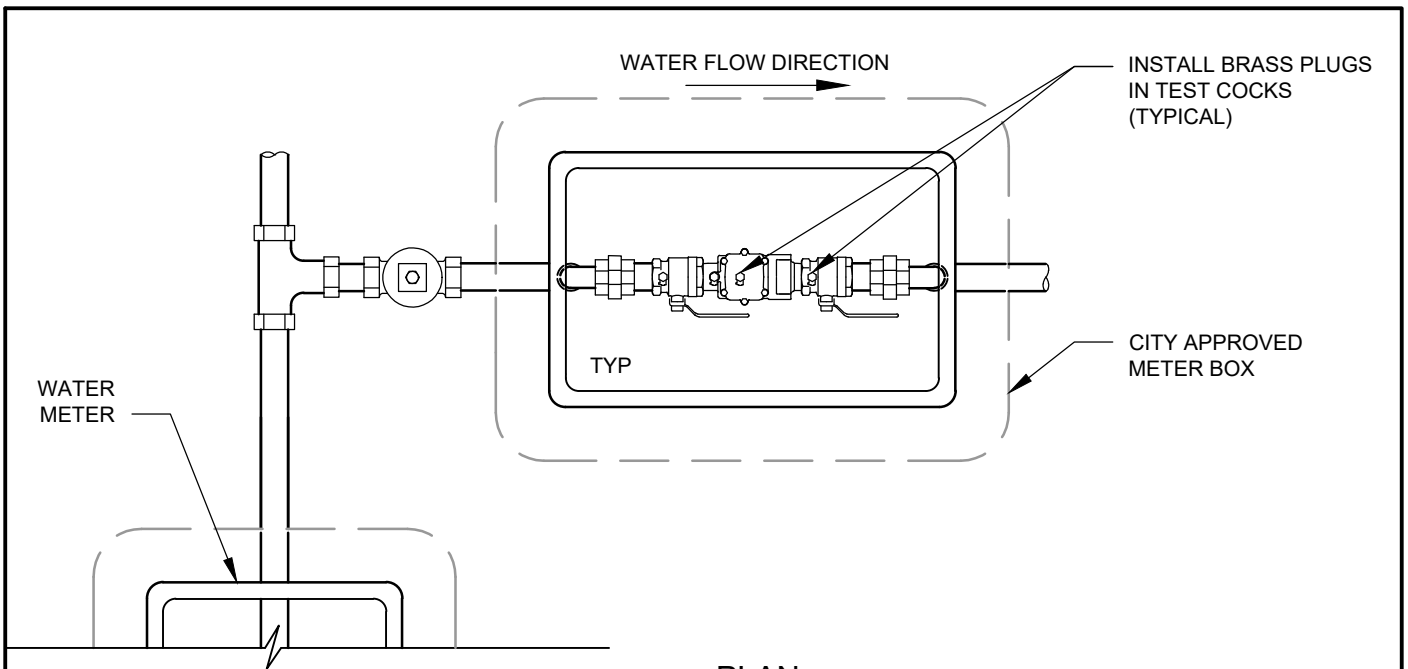
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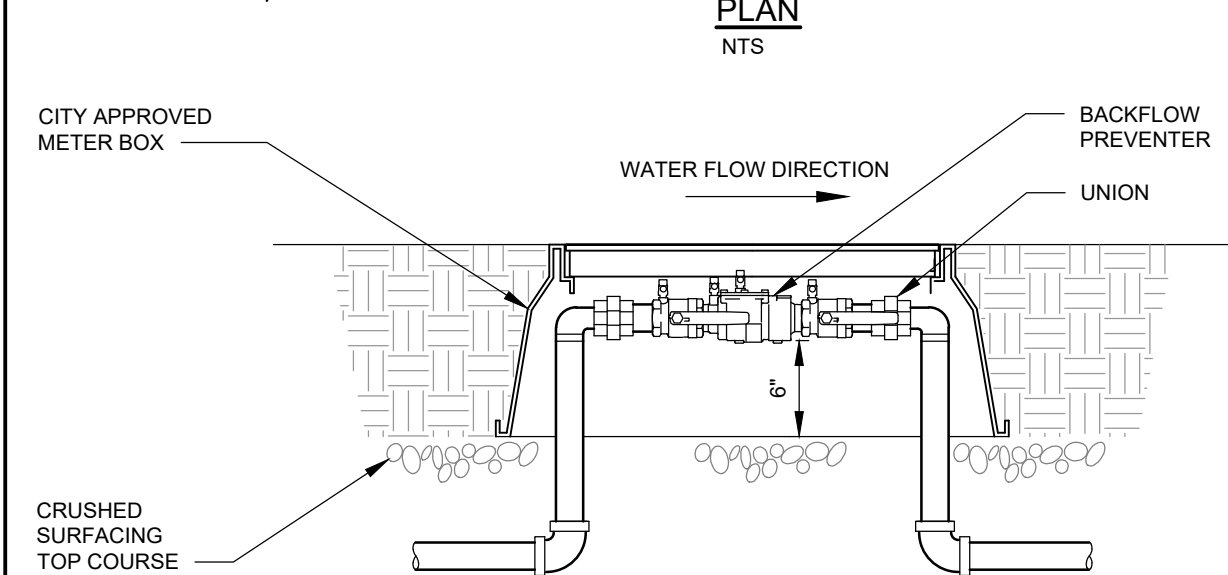
STANDARD DETAILS

WATER METER VAULT AND
PRV STATION LADDER DETAILS

FILE NAME: SD710B.DWG DETAIL NUMBER: 710B



PLAN
NTS



ELEVATION
NTS

NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY SHALL MEET REQUIREMENTS OF THE LATEST EDITION AWWA "ACCEPTED PROCEDURE AND PRACTICE IN CROSS-CONNECTION CONTROL" MANUAL.
2. DEVICES MUST BE ON THE LATEST EDITION OF THE WASHINGTON STATE HEALTH DEPARTMENT LIST OF APPROVED CROSS-CONNECTION CONTROL DEVICES.
3. METER BOX SIZE SHOULD BE THE SIZE SPECIFIED FOR THE METER SIZE EQUIVALENT TO THE BACKFLOW PREVENTOR SIZE.
4. IRRIGATION BLOW OUT CONNECTION FOR WINTERIZATION SHALL BE LOCATED DOWNSTREAM OF THE DOUBLE CHECK VALVE ASSEMBLY IN A SEPARATE IRRIGATION VALVE BOX.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

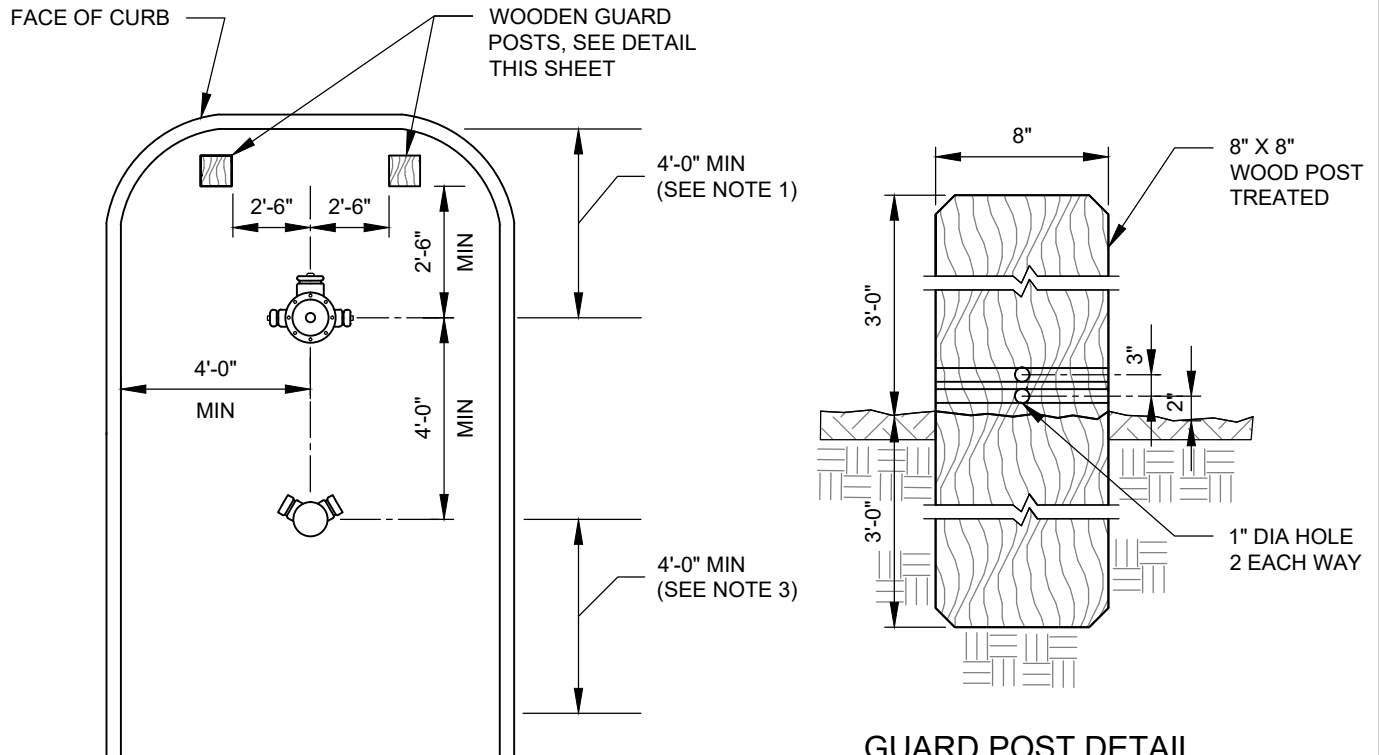


STANDARD DETAILS

**IRRIGATION BACKFLOW
PREVENTER (3/4" - 2")**

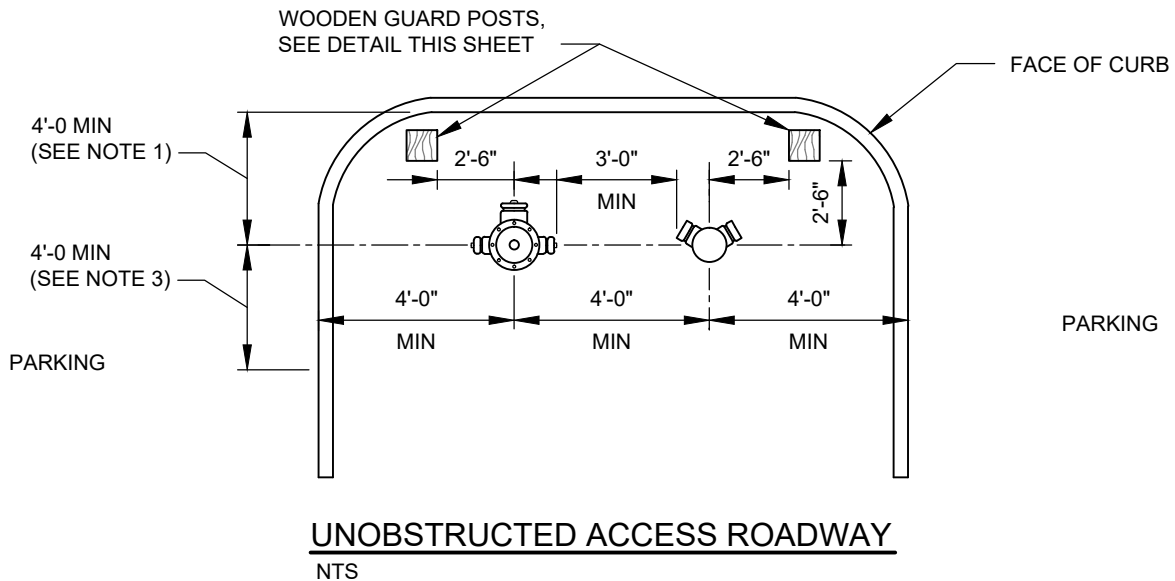
FILE NAME: SD711.DWG

DETAIL NUMBER: 711



UNOBSTRUCTED ACCESS ROADWAY

NTS



NOTES:

1. GUARD POSTS ARE REQUIRED IF HYDRANT AND/OR FIRE DEPARTMENT CONNECTION ARE LESS THAN 4 FEET FROM CURB LINE, OR WHEN OTHERWISE DETERMINED NECESSARY BY THE FIRE MARSHAL OR WATER DEPARTMENT.
2. ONLY GROUND COVER LANDSCAPING SHALL BE PLANTED WITHIN DIMENSIONED AREAS.
3. A 4 FOOT MINIMUM AREA SHALL BE FREE FROM PLANTS OR SHRUBS OR OTHER OBSTRUCTIONS.
4. A 8 FOOT MINIMUM AREA SHALL BE FREE FROM TREES.
5. INSTALL 3/4 INCH VIKING AUTOMATIC BALL DRIP VALVE IN ACCORDANCE WITH NFPA STANDARDS. PLACE SADDLE ON HORIZONTAL PIPING (FDC LINE) 2 FEET FROM FITTING TO FDC.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

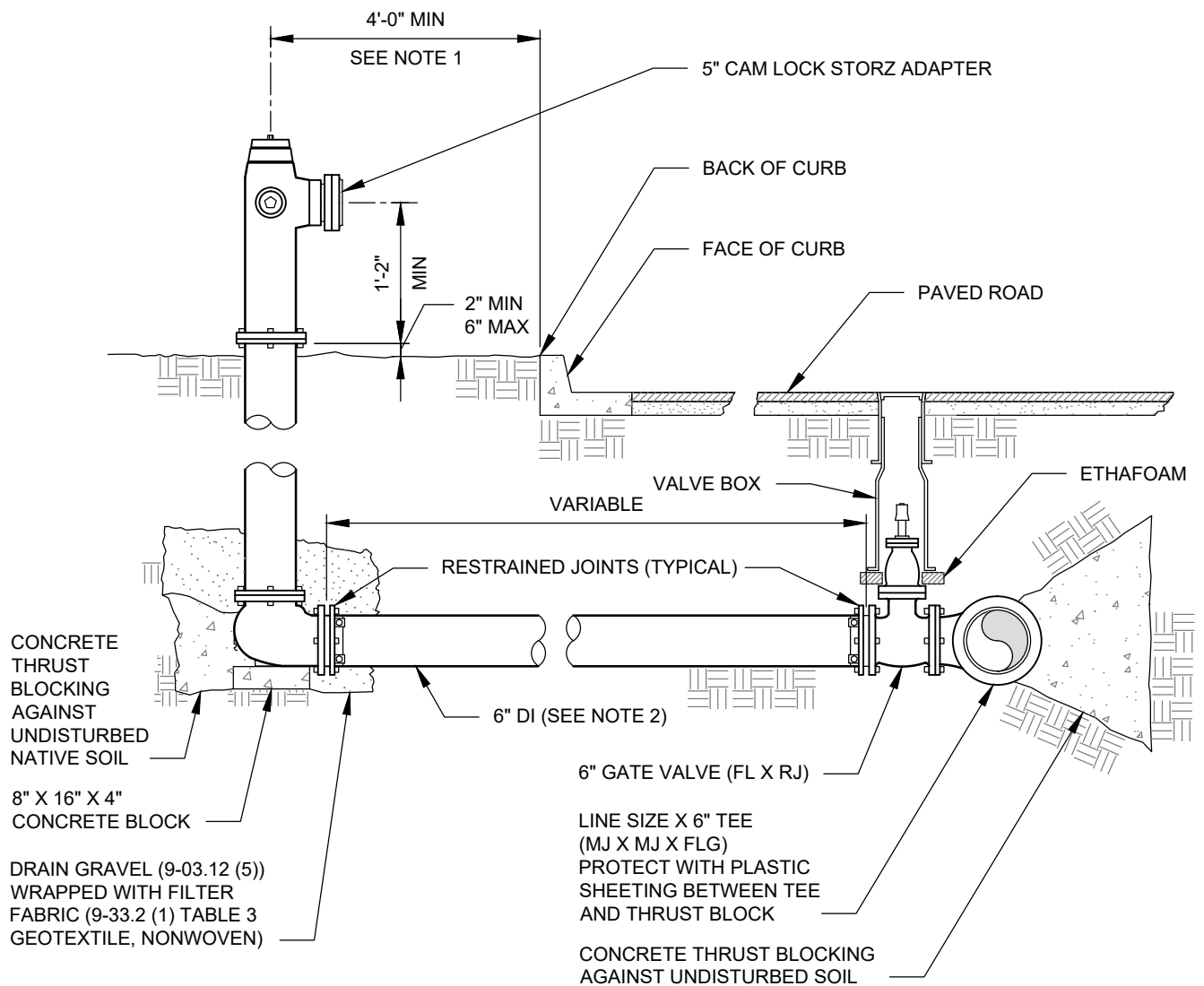


STANDARD DETAILS

**FIRE HYDRANT
AND STANDPIPE LOCATION**

FILE NAME: SD712.DWG

DETAIL NUMBER: 712



NOTES:

1. WHERE FIRE HYDRANT IS SHOWN BEHIND SIDEWALK, SET CENTER OF HYDRANT 2 FEET BEHIND WALK.
2. WHERE FIRE HYDRANT IS LOCATED WITHIN CONCRETE SIDEWALK, PROVIDE 4 REMOVABLE PANELS, EACH MEASURING APPROXIMATELY 4 FEET X 4 FEET, CENTERED AROUND THE HYDRANT. REMOVABLE PANELS SHALL HAVE FULL DEPTH 3/8 INCH EXPANSION JOINTS ON THE EDGES AND SHALL BE INCORPORATED IN THE SIDEWALK DESIGN WHEREVER POSSIBLE.
3. FIRE HYDRANT LINE SIZE SHALL BE A MINIMUM OF 8 INCH DIAMETER IF LENGTH IS GREATER THAN 50 FEET.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

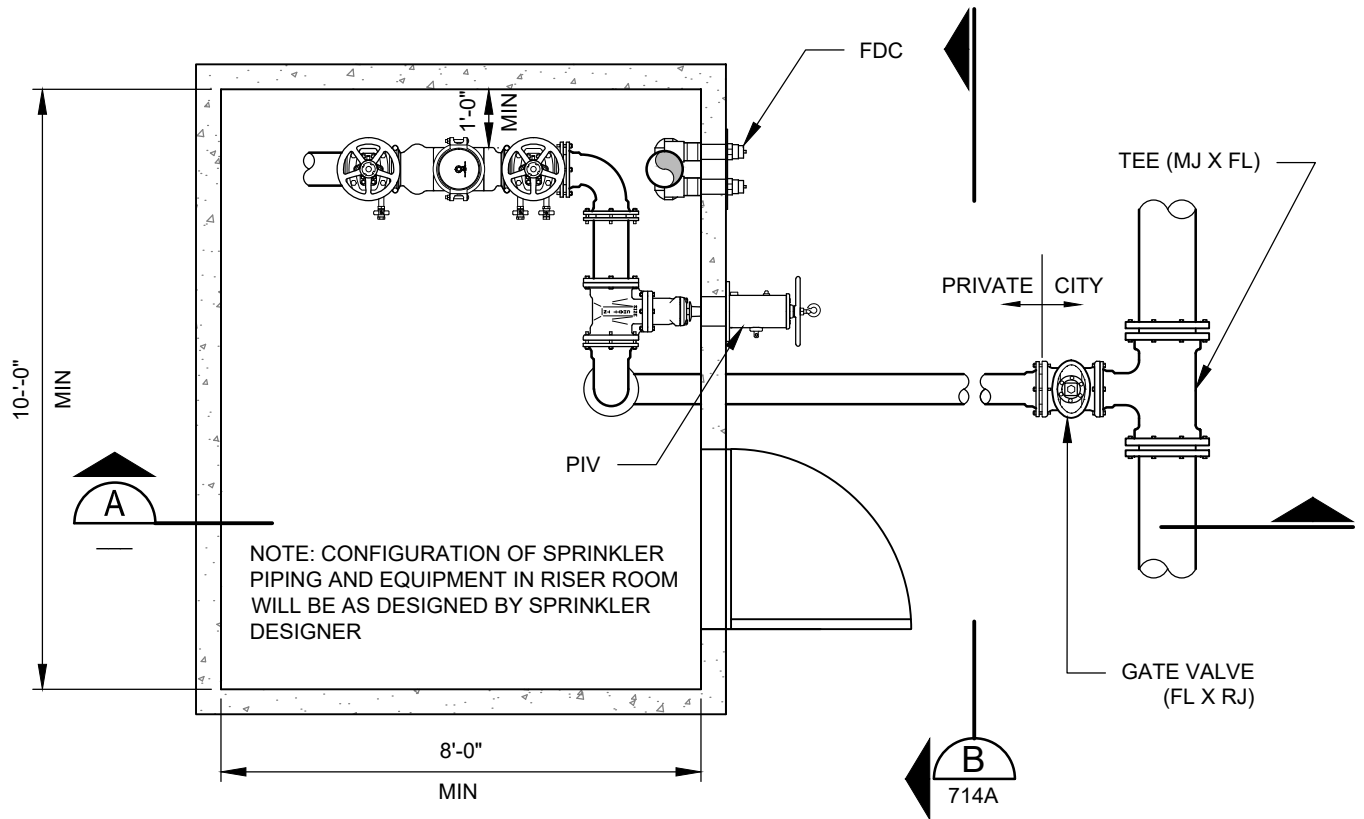


STANDARD DETAILS

FIRE HYDRANT ASSEMBLY

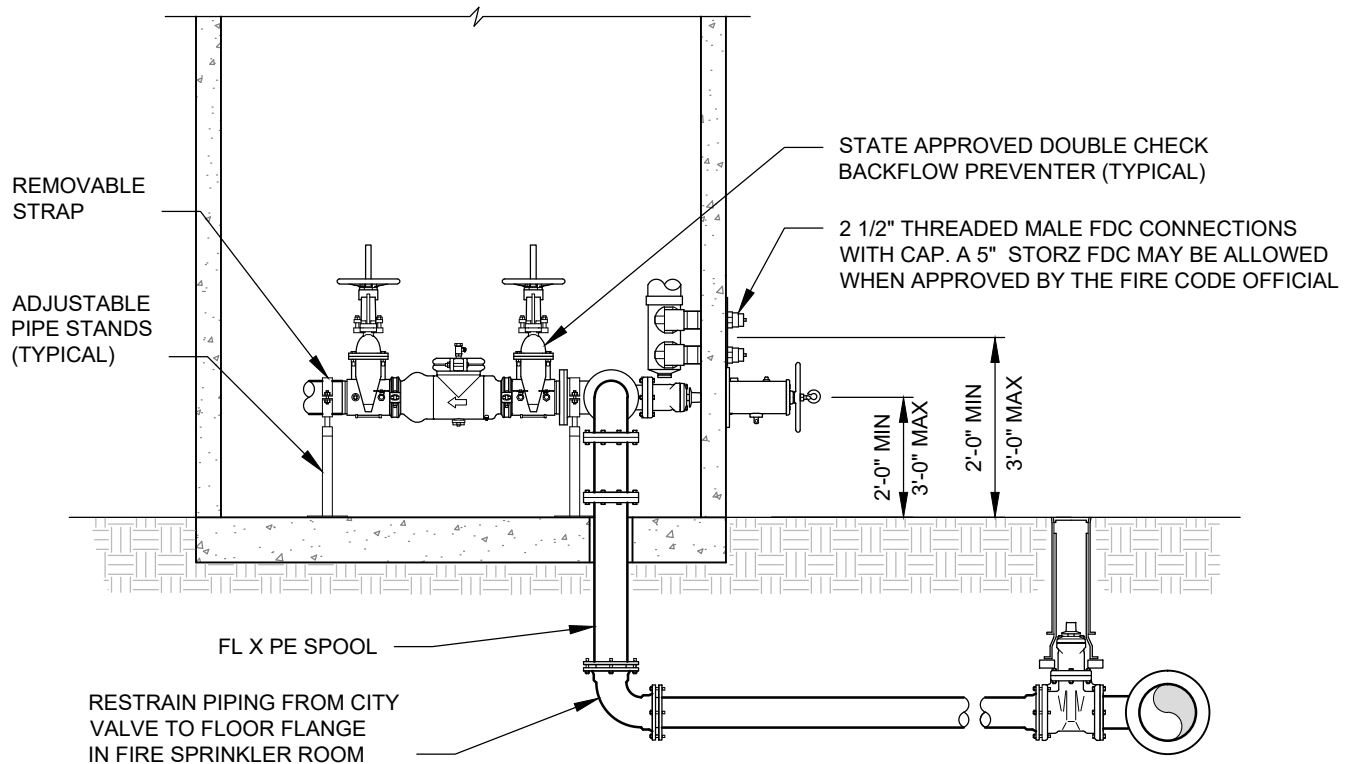
FILE NAME: SD713.DWG

DETAIL NUMBER: 713



RISER ROOM PLAN

NTS



SECTION A

NTS

Todd Short

APPROVED BY: TODD SHORT
ASSISTANT FIRE MARSHAL

REVISION DATE: MARCH 01, 2018



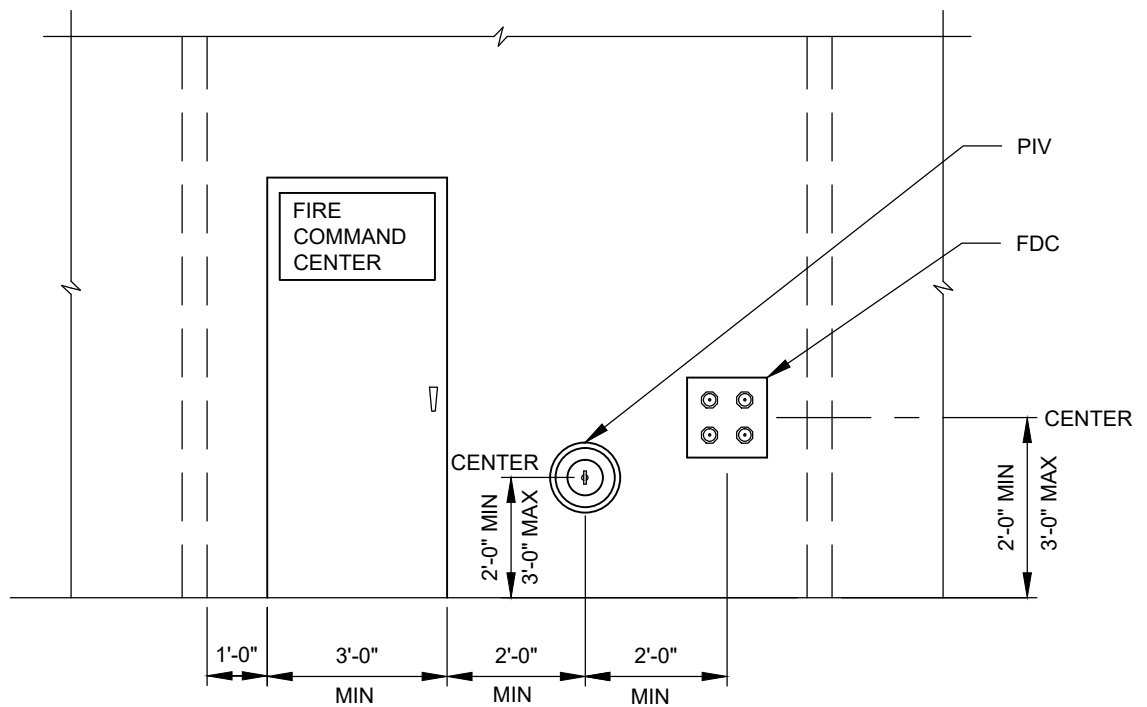
City of Redmond
WASHINGTON

STANDARD DETAILS

FIRE SPRINKLER SYSTEM
BACKFLOW PREVENTER

FILE NAME: SD714.DWG

DETAIL NUMBER: 714



SECTION B
NTS 714

NOTES:

1. PIVs AND FDCs SHALL BE LOCATED AT LEAST 40 FEET FROM BUILDINGS WHERE SITE CONDITIONS ALLOW. WALL MOUNTED PIV'S AND FDC'S MAY BE USED WHEN APPROVED BY THE FIRE CODE OFFICIAL.
2. FDC CONNECTION SHOWN IS FOR A FOUR WAY SYSTEM. OTHER CONFIGURATIONS ARE ALLOWED. REFER TO APPROVED FIRE SYSTEM DRAWINGS FOR FDC SIZE AND TYPE.

Todd Short

APPROVED BY: TODD SHORT
ASSISTANT FIRE MARSHAL

REVISION DATE: MARCH 01, 2018



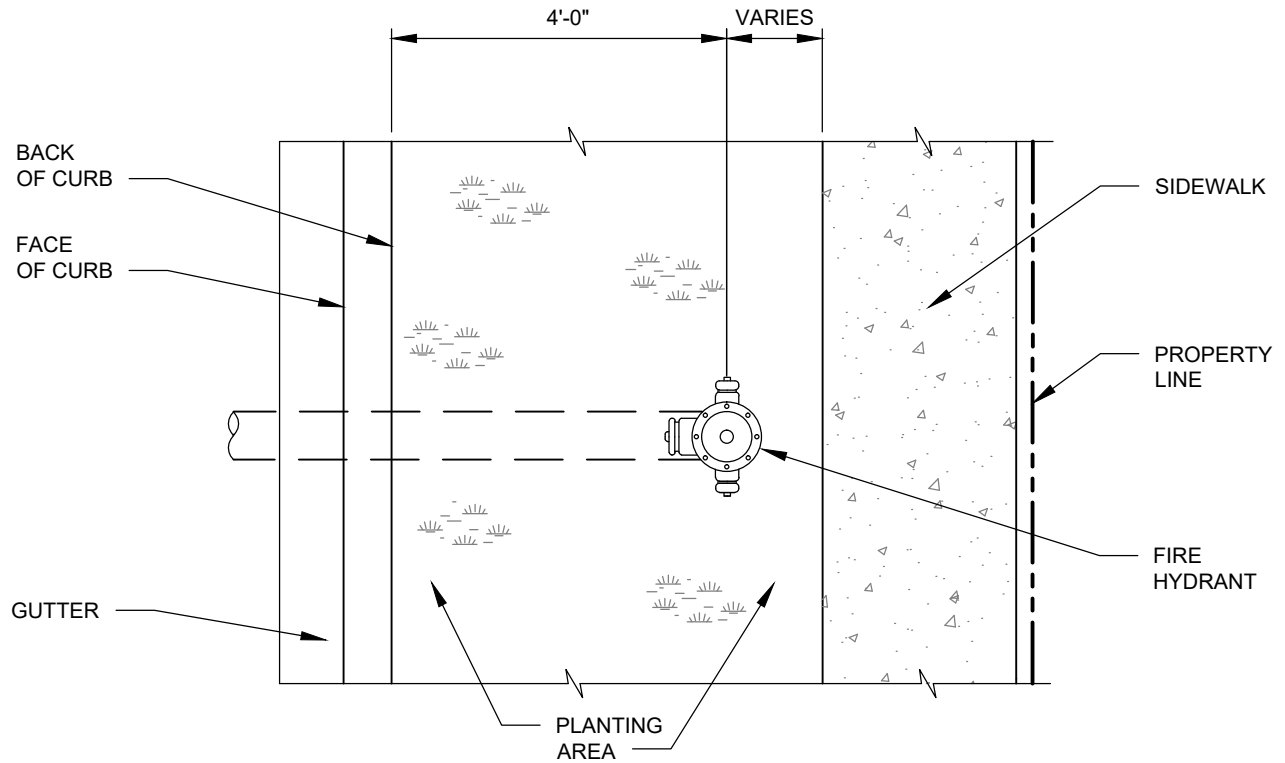
City of Redmond
WASHINGTON

STANDARD DETAILS

FIRE SPRINKLER SYSTEM
BACKFLOW PREVENTER

FILE NAME: SD714.DWG

DETAIL NUMBER: 714A



FIRE HYDRANT
NTS

Gary M. Schimek

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WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

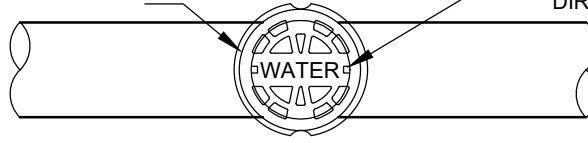
**HYDRANT LOCATION
WITHIN PLANTING AREA**

FILE NAME: SD716.DWG

DETAIL NUMBER: 716

VALVE BOX COVER, EAST JORDAN IRON
WORKS, EJIW 6800

ALIGN INTERNAL VALVE BOX NUBS IN THE
DIRECTON OF THE WATER MAIN (AS SHOWN)

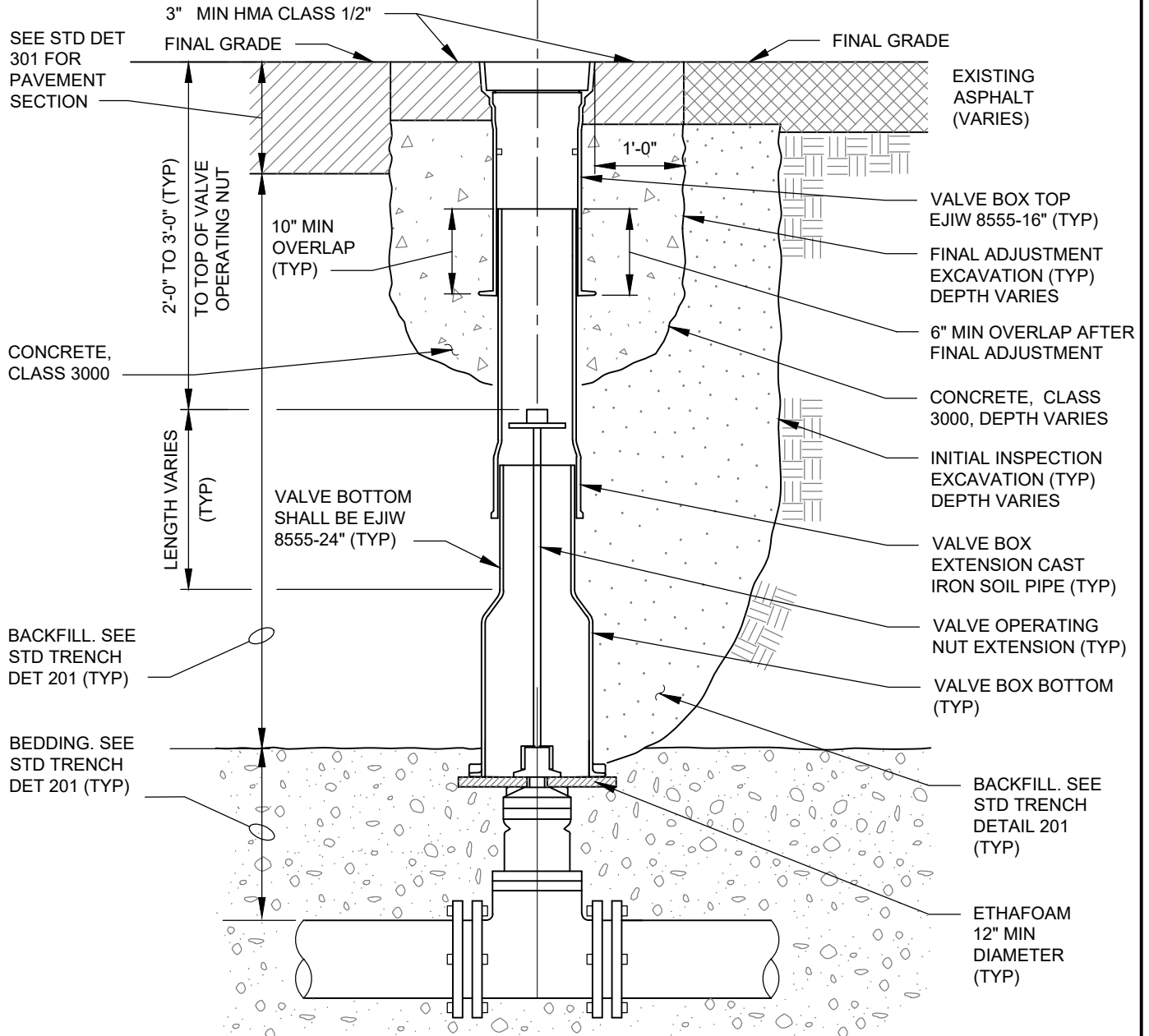


PLAN

NTS

NEW CONSTRUCTION

ADJUSTMENT OF EXISTING
VALVE BOX IN PAVEMENT



SECTION

NTS

NOTES:

1. ALL EXISTING VALVE BOXES IN NEW PAVEMENT AREAS SHALL BE REPLACED WITH THE LATEST MODEL.
2. VALVE BOX LIDS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
3. UTILITY ADJUSTMENTS TO FINAL GRADE SHALL BE DONE **AFTER** THE PAVING OPERATIONS ARE COMPLETE.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018



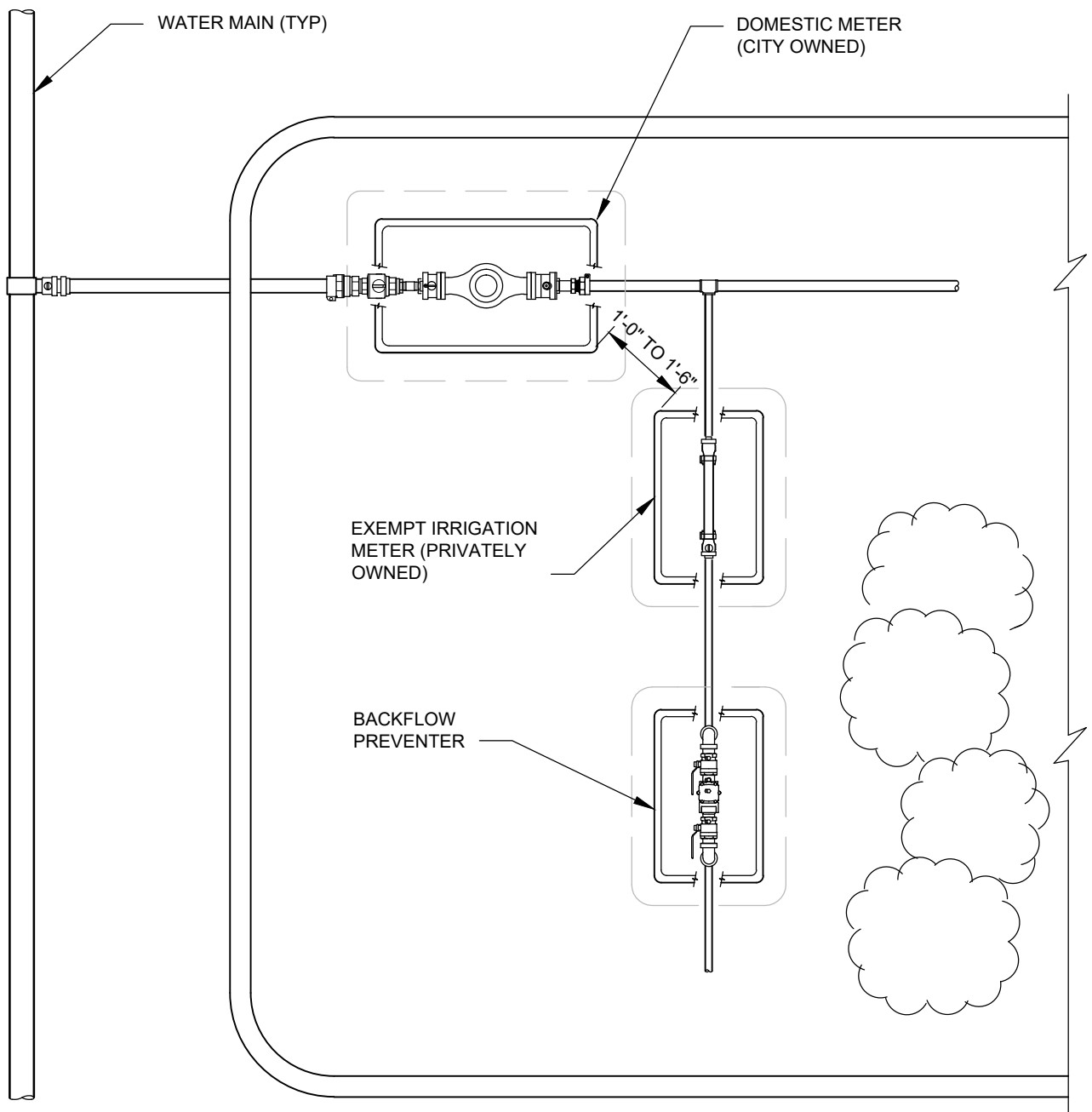
City of Redmond
WASHINGTON

STANDARD DETAILS

VALVE BOX DETAIL

FILE NAME: SD718.DWG

DETAIL NUMBER: 718



IRRIGATION METER PLAN

NTS

NOTES:

1. EXEMPT METERS SHALL BE PLACED GENERALLY PARALLEL WITH THE CITY WATER MAIN AND PERPENDICULAR TO THE CITY METER.
2. EXEMPT METERS SHALL BE PLACED BETWEEN 1 FOOT TO 1 FOOT 6 INCHES FROM THE CITY WATER METER.
3. INSTALL EXEMPT METER SETTER IN ACCORDANCE WITH STANDARD DETAIL 702.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

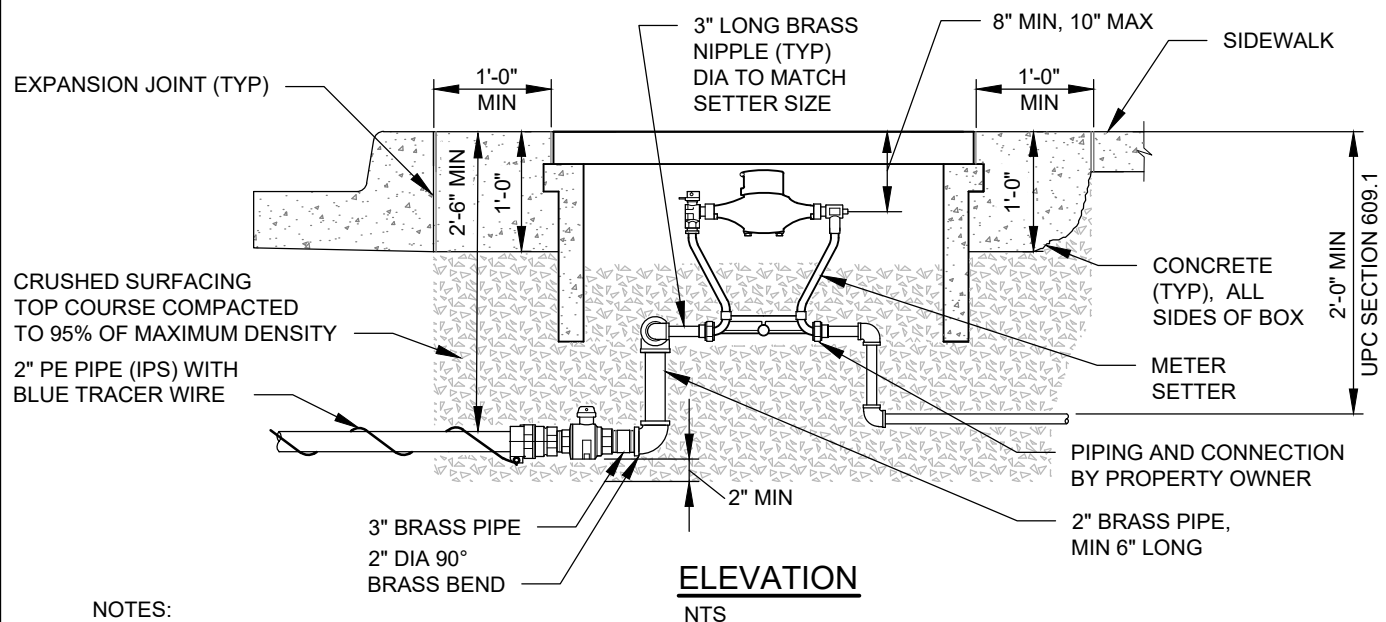
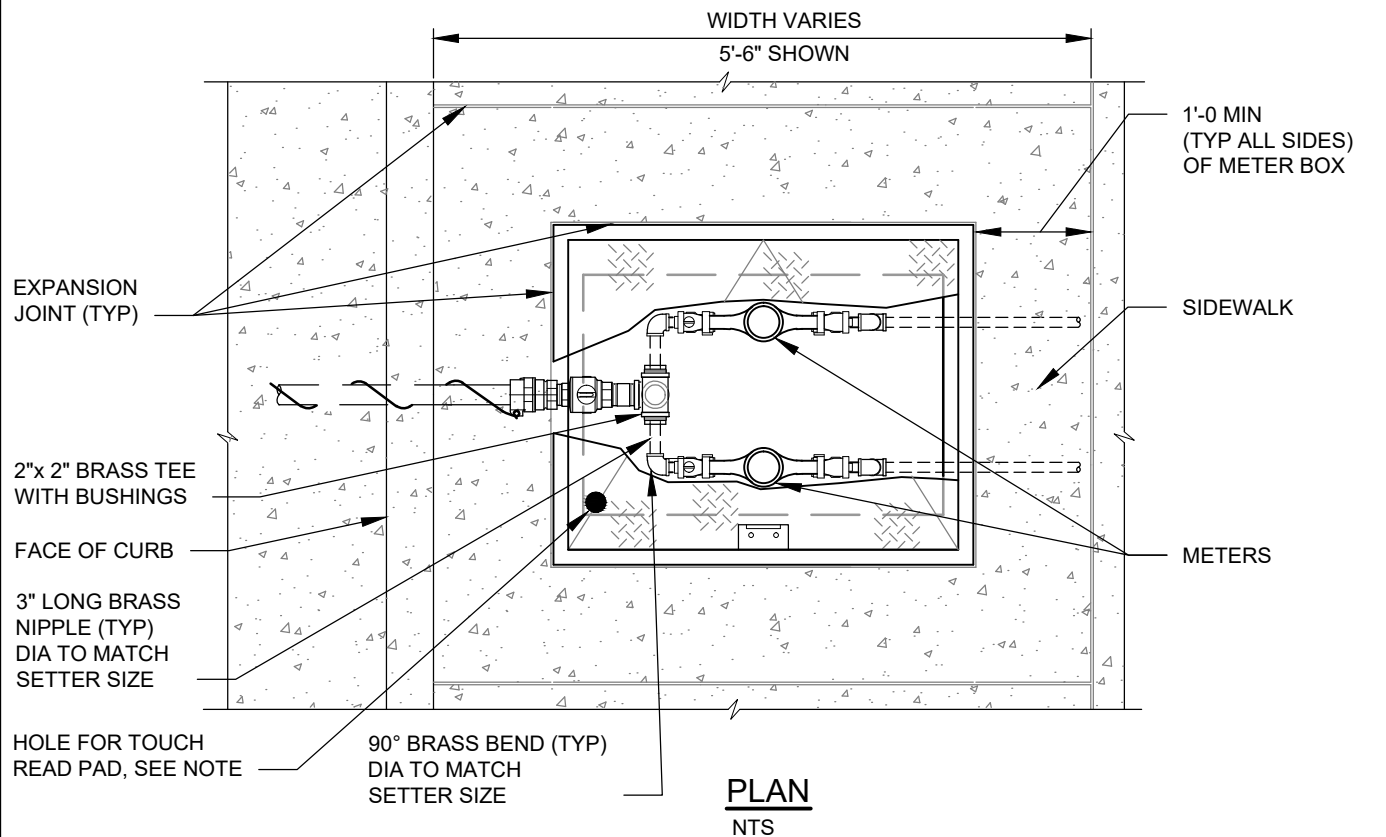


STANDARD DETAILS

EXEMPT IRRIGATION METER
LOCATION REQUIREMENTS

FILE NAME: SD719.DWG

DETAIL NUMBER: 719



NOTES:

1. THIS INSTALLATION SHALL ONLY BE USED IN URBAN STREETSCAPES WHERE LANDSCAPE AREAS ARE NOT AVAILABLE AND WHERE APPROVED BY THE CITY.
2. SEE STANDARD DETAIL 701A AND 701C FOR ADDITIONAL DETAILS.
3. SET METER BOX FLUSH WITH SIDEWALK.
4. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
5. ALL FITTINGS SHALL BE BRASS.
6. METER(S) SHALL BE CENTERED IN THE BOX TO MAINTAIN EVEN CLEARANCE FROM EDGES OF BOX.
7. TOUCH READ PAD HOLE TO BE DRILLED BY THE CITY.

Gary M. Schimek

APPROVED BY: GARY M. SCHIMEK
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018



City of Redmond
WASHINGTON

STANDARD DETAILS

5/8" X 3/4" AND 1" DOUBLE
METERS IN SIDEWALK

FILE NAME: SD721.DWG

DETAIL NUMBER: 721

